PCT/US01/09126.

TABLE 1A 225/599

Sequence 4211

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGATGTGAATAATACCACATTTGTAAGTT GACTTAAAATTCTGAAATGATGCTTCATCAGACAGGGTTCTTGTATAAAAGAGAGTTTAA CCTCGAGTTATGAGCCTGGGAGGGAAAAAAATAAGGGACAGTGAAGAAGGATTAGTAGCG TTGGTGAGTCATTACCACCCTTCAGGCTGACCAGTCCAAGGAGAGTTGAAATCATGAAGG AGAGTCTATCTGGAGAGAGCTGTAGTTTTGAGGGTTGCAAAGACTTAGGATGGAGTTGGT GGGTGTGGGTTAGTCTCTAAGGTTG

Sequence 4212

Sequence 4213

Sequence 4214

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGGAATATCTTTACAGCAGCAGTGG
TTACATGACTTTATATCACTATATATCTTTGTCAAAGCTCAGAATTGTATAGCTAGAAGG
TTATATTTTACTGTATAGAAAAAATATCTCAACAAACCTGACTTTGAAAAAATAATAAAAA
GAAAAGAACTAGGCTCAATAGTGAATTAGACTGAAATTACCTCATGAACAGGCAAGCACA
CTGATTATGTAAAAAATCTTTCTGATGTTTACTTTTGAATTGTTTATTCTCCATTTTTCTA
CATTAAAGTATTAANATTAAATGTGTTA

Sequence 4215

Sequence 4216

GTATGTATATGTGGGGGATCGTGGGTAGGGGGAAGAATTCAGAGGGAAGAAGCTT

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TABLE 1A 226/599

GTGGCGTCTTTGCCTGGACGATTTCTAAAAACTAGCTGACTCGTCATCTTTAAAACAACA
ACAATAAAAGCTATCATATGCATATGTTACTTTGTTTAATATTTACAACAACCCTTTGTG
GTAAATATTTCATTTTTCAGATGAGGAAATTCAGGCACAGAATGATTAATAATTTGCTA
NTGAAGTCACANCAGTGATGGGGATGTTGGAGATTTAAATCAATGCATTTTGAGTTGCCT
GAGCAAAGAATTCCAAAATTTAGGAAGTCACTATTTCTGTATTTCCTTCTAAGGAAAACC
ATCTAAAGTATATTTTTATCTCCAGTAGGCNGTGGNCATTGTCAAGAGAAAGGATTG
GTGATTTTATTTGGGGTGATGGGATTGGGACTTAATTTTCTCTTTTTGCTTTTTGCTGTGT
ANTTCCAGATTTTANNTAGTGAAACTTAATTTTAAAAACNCAACCAANTTTNATGTTTGA
TGTATAAATTTATAT

Sequence 4217

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTCAAGTTTTGGTAAAGT
ATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGAACTTAATAACCATGACATTTGGGC
AAATTGTTTGAAGCCTCAGTTTCCTCAACCTAAAAATAGGAATTATAACTTTTTGAATTG
TTCTGTTGTATGAGATAATGACAGTGAAATATTTTGGAGCCAAAAAGCAATGCATACTAT
TGGGGGTTATTATTTTTTTTGATCTTTCAGCAAGCCAGCTATAGTAGCTTTTCCTATAT
AAACACAGTATGAATTCAGTGCCCTCGCTTTACTGACCCTCACAGCATTCAAGCCCTGTA
TGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTATTCTTTACTATTTTCCCC
TTTAACAATTTAAACTTCTTTCAAAACAACTGGCAGTAGTTTTTTTAAAAAAAGAAAACAGG
CTACTCTTCAAATTAAAAAAAAATTGTCTTGCTTTAGGAAAAAATGTTCTTCTGTCTTTTCC
AATTATCTTATTTCTTCTGC

Sequence 4218

Sequence 4219

Sequence 4220

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCCAAACACAGATCAGCCTTATC
TAGCGAACCATCACTCTGCTCTTGAATTTTCTTTTGGCCTCAAACTCTAGAGCTATAACA
TGTTAACGGTTTAACACCAGAGGAGAAAGCTATTCTTAAACTACTCCAAACATGGTTTTT
TTTCTATTTTTCAGACTCCTGAAACAGACTACTCTTTGCCTTTTTGCTGCAGTTGGAGAA
GAAGCTGAATTTGAAAAATGTNTGTTATGCAATGCTGGAGACATGGTGTAAATAGGCCAAA
GATTTCTTCTTCGTTCAAGATGAATCTGTTCACAGNNGGAGTATGGTGTTCGGCAAAAG
GACCTCCACCAAGACTGAAAGAAACTAATTTATTTCTGTTTCTGGGGAGTTTCCATTATT
TCTACTGCTTACACTTTAGANTGTTATTTTATGGGGGACTAANGGATTAGGAGTGTGAACT
AAAAGGGAACATTTCCACTCTCAAGTNTTCTACTTTGCCTTTGACNGAAAATA
Sequence 4221

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Sequence 4222

Sequence 4223

Sequence 4226

Sequence 4227

TABLE 1A 228/599

TTAATNTATTCAAAGGGTTNAATNGAACTTTTTTAANGGGAAACAATTGGTTTCTTATTA ACCCCGGTNATTTTTTTTTANAATTTTAAAAAAGGNCAAAAGGTGGCCCCTTTGGNAN TNGTTTAAATTTTTCCCNANTTGGNTTAANAAAATTTCAAATTTTNGGCTTTTTAAAACC TCCCCNTTCNTTTTAANTGGGGGNGTAATTGGNAAGTGGNAATTNGTAATGNCTNATTAA ATTTTTAANANTTGGTTAAATTTTTGGGCCAATGGTCCCCCTTAAACNTNTGGGNNAAAA AAAAGGGGTNAGNTGGGGGNGNAAAGGNTTTTTGGGGGGNTTTTAANAATTAANGNTCC CAANGTAANTTAANCCTTTTTTNTTCCTTTTTNCNTAAAGAAAAAAAAGGCCCTTTTT Sequence 4228

Sequence 4229

CCGGGCAGGTACTGACACATGATGTCCCCTACCATGATTACTTCTATACCGTGAACAGAT ACTGTATCATCCGATCTTCAAAACAGAAATGCAGGCTAAGAGTTTCCACAGATTTGAAAT ACAGAAAACAGCCATGGGGCCTTGTCAAATCTTTAATTGAAAAGAATTCCTGGAGTTCTT TGGAGGACTATTTCAAACAGCTTGAATCACATTTGTTNAATGAAGAATCTGTATTAAATC AGGCCGTTGAATGACCCTGNAAAACTTACTGGCCTACGAANGAGAANGCCGAACCCTTCA NCCCGNACAGNAGAAACAGTTNCTAAACTTTTCCTTTCAGCATTCCTCTGGAGATGTGGG CTTAGGTGCCAAAGGGGATNTTACAAGGAAAAGA

Sequence 4230

Sequence 4231

Sequence 4232

ATNTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACCACATTGTATT

TABLE 1A 229/599

GAGTTTTGTGTATAAAAGCTACAGATGAGTCTAAATAAAATAAAAATTGTAATTTAGCCC
AAATGCTGAACTAAGTCAGATACCTCTAGTCCTATAATGGAATAAGCTCTATGATATGTG
TTAGTATTGCATATGGTATGATTGTAAGGTTTTTGGAAAGCAGTTTAATATGCCAGTCTT
GCATGTGAGCAGATGAGTTTTCTCCTTGAGCTGGATGTCTCTTTGAAAACTATCAGTCAC
CTAGAAAATATATTTGTCCTCATATGGGAAACTAGGTCTAGGAAAGCAGGGTGTAGGGAG
AGGTCTTAGATTCTTGGGTTAACAATTTAACAAAGGAGATTTGGCTATCACAGTCATCTA
GTGAAAGTAGAATAGGACAGAAAAGACCTTGTAACTTGGG
Sequence 4234

Sequence 4235

Sequence 4236

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAACCTTTCACAACCTGGAGAATGGCAATAA GACATTGCTGAAAGTAGTCTACAGATATGTTACTTCCCAACAATTACAGTAATCGAGAGT GTTGCATAGTTTGCAAAGTACTTCATGAGTTCTTTTAATTAGCAAAACAAGGTATTGGCT AGGAAGAAAAGTTATTATTATTTTCATTTTATAGATGAGAAAACAGAACCACAGAAACTG AGGGAGTTACCCAAGGTTACGTGGCAAAGGAGTGACGGTGGCACATCTAGAATCCAAGTC CACTGACTCTCATCATAATGGCCTTTTTATATCATGCTTCTCTTGAACTATGACTTGNCT TCTAGTATATGTAGATATCGTTTATACTTAAAAATTTGCCTAATACTATCTCATAATGAT GCTAAGATTATAAAATGGGAAATTAAAGTTTGTAGAATTCGNTTATACTTAAAATTTG CCTAATACTATCTTATAAATGTTGAGATTTTAAAATTTGAACTTTAAAAATTTTGAATACTTTAAAAATTTTGAATACTTTAAAAATT

Sequence 4237

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTGGCTATCAATTCCACTTGGTCATGAGGTTT
GTTTTAATACAGTGCTGAATTTGATTTCCCAGTATTTTGTAAGGATGTTTGCATCTGTGT
TTTTGAAATTTATCTTTTTAAATTGATAAACTAAGACTTAATACATTTATTGTGTGGA
ACATGTTGTTTTGAATCTATGTTAATGATTAATACAGATCTTTTGGTTTCCTTGTAATAT
TTTTGGTTTTATTTCAGGCTAATGATGGCTACTTAGAATGAGTTGGGGAAGTATTCTCTTT
TCTGTTTTCTGGAACTGTTTGTGTAGACTTATTCCTTACATGTTTGGTTGAAGTTCACTA

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Sequence 4238

Sequence 4239

Sequence 4241

Sequence 4242

Α

TABLE 1A 231/599

Sequence 4243

Sequence 4244

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTGCATTTTCCTCAGAAAATTACTG
AAAGGATTTTTGCCTTCTTGGAATTCCTTTGTCTCCTGCTAGTTTAAACCAAATATTGT
TTGCCACCTCTACAAACCTTTTTTACCTTCCCTATGAAGGGGAAATATCACCAACTAATA
CTAATGTTTGGAAACAGAACTTGCCTAGAGATGAAATTAAACTAATTGAAAACATCTGCT
GGACTCTGATGGATCGCCTAGGATATCCAAAGTTTATGGACTAAATGCTGCAGGTCAGCA
GAAATTTGCACTAATAATACTTACCAACCCACTTTGTGGATATGAATCAGAAGAGTTTGT
TTATTCTTTAGTGTGTGTGTGTGTGTGTGCACGCGTGTATGTGTTCAAGTGTTGTTTTATGTC
ATCACCTCCCTTGCCTTTGTTTCTGAAAATTTTGGCTGCTAAAAAGTTTCTGCTTCAGAGN
GGTAGAATGAAAGTTATATCATGGGGGGCAGGGGGAAAAAGTT
Sequence 4246

TABLE 1A 232/599

AAGTTAAAAATCTGAATTAACCGTGCTGATATGTTTCATGGNGATAAAATATAATTGCTT
ATATACATATGCAGGTATTTAAGTCTATAGCCTGNGTGGGTGTGTGTGGGNGAAAACCTA
TGACCCTGTGCACATTGGTCTGGGGGTATTTTTTTGGAATATGGAANTGGAGTTGGGACAN
ANATNCNGCTCACAGCTTATGAATTACTTANCCCNTNCNTGTNTTGGTCTTAAAACATTA
AAA

Sequence 4248

Sequence 4249

Sequence 4250

Sequence 4251

Sequence 4252

TABLE 1A 233/599

CTGAAAGGAACTGTGTATTTTCTCCATCAGATTCAACCAATTGAAGTATGTTGCTGTTAT TTGATCAGTGCTCTGTAAATCTCTAAGCTGATCTAGTTGATCTTTTTAAAACTACCTTTA AAAAA

Sequence 4253

CCCTTAGCGTGGTCGCCGAGGTACAATTTGTAGTTGTTTCCAGGTTTGGCTAATAAT CATTCCTTAACCTAGAATTCAGATGATCCTGGAATTAAGGCAGGTCAGAGGACTGTAATG ATAGAATTAAATTAGTGTCACTAAAAACTGTCCCAAAGTGCTGCTTCCTAATAGGAATTC ATTAACCTAAAACAAGATGTTACTATTATATCGATAGACTATGAATGCTATTTCTAGAAA AAGTCTAGTGCCAAATTTGTCTTATTAAATAAAAACCAATGTAGGAGCAGCTTTTCTTCT AGTTTGATGTCATTTAAGAATTACTAACACAGTGGCAGTGTTAGATGAAGATGCTGTCTA CAAGGTAGATAATATACTGTTTGATACTCAAAACATTTTTCATTTTGTTAAAGTAGAAGT TACATAATTCTATATTTTAAGGTCTTGGGGTAAAAAAGTAGTTTTACATTTTATA Sequence 4254

CCCTTTCGAGCGGCCGGCCGGGCAGGTACTAGTATATTAAAGTTCAATAATTATGATC CTTATTATAATTATTAATTCATCATTATTACATCAATTTAAATAGAAATTTCCCAGTATT AGTCTTAATTGTAATATTGAGCCCACATGGAACTGTCCCTAATATAGAATCTACATTCCT ATATTGCATATTGCATGTGGTTTGAATCTATTGTAAGTTTCAATATGGTCACAAAAAACT CATTAACACCCTAATAATGAGAAATCAGGCATTGCAATGGACTGTTTGTGTCTCTCACAA ATTTATATGTTGAAGCCTTAATTCTCAAGGTGATAGTATTAGGAAGTGGGGTCTTTGGGA GCTAGTTATATCATGAGGATGGAGCCCTCACAATTAGGATTAGCACCTTTATAAGAAGAG AAGTTTGTTCCCCTCTCTCTCCCCTCCATCATGTGAGGATATGAGAAGCAGACCATTTGC AAAAGANGAAGCTGATCCTCACCACCCCATTGAGTTTGCCGGCCCTTGGTCTCGGATTTA CCAGTTTTCAGACTAAGAGAAATAAA

Sequence 4255

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTCAAGTTTTGGTAAAGT ATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGAACTTAATAACCATGACATTTGGGC AAATTGTTTGAAGCCTCAGTTTCCTCAACCTAAAAATAGGAATTATAACTTTTTGAATTG TTCTGTTGTATGAGATAATGACAGTGAAATATTTTGGAGCCAAAAAGCAATGCATACTAT TGGGGGTTATTATTTTTTGATCTTTCAGCAAGCCAGCTATAGTAGCTTTTCCTATAT AAACACAGTATGAATTCAGTGCCCTCGCTTTACTGACCCTCACAGCATTCAAGCCCTGTA TGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTATTCTTTACTATTTTCCCC TTTAACAATTTAAAACTTCTTTCAAAACAACTGGCAGTAAGTTTTTTAAAAAAGAAAACA GGCTACTCTTTAAATTAAAAAAA

Sequence 4256

GCACTTCCTTCTTGCCAACTTCGGTGCCACATAAGGGAAAAACAACAGAAATCTAAC ACCCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTTTT Sequence 4257

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTCTGCCCTTGATATTCTAATAAAAAACTA TAGNGACAGCTTGACAGCTGCCATGATTGATGCAGTTCTAGATGAGCTCCCACCTCTTAT CAGCCGAAAANGGTGNATATNGCCANTTGNTTTTCCAACAAAAATGGGCCCAATCCNAGT TTTTTNTTTTAACCCAACTTTTTTGGGCCAAANAAAGGTTAATTATTCCCCCTTTCCCT TCCCNCTTTTTCCAAAAAAGGAATTAAAAGNNTGGGGAATNCCCAATTTTTCCTTTCAA CCCCCTTTAATTTTNGGCCAAGGGGGGGGGGGGGGGGGAAGGNCCCTTCCTTTTAAGNTTN GGGGGTTTTTTGGTTTCNAACCCNTTGGGGGAAAACCCAAANAATTTAAAATTTTTTAA NGGGGAAATTAACCAATTTGGGGGAANTTTTT

Sequence 4258

CCCTTTCGAGCGGCCGGCCCGGGCAGGTACGCGGGGTCATTGGTGGCGGAGGCAATGGCCG

TABLE 1A 234/599

GCAACCAGCTGTAAGCGGGGCACGGAAGACATATGCTTGTGAGACAAAGGTGTCTCTGAA ACTATGGATGGNACACATTNACATNGGTATTTGNAATAAAAGAATTGGAAAATTGGGAT AAAGTTTTTTCATGGCCAAATCTNATTGCACAANATACNACNCATTCTTTTAGNAGTATA ATGGTCAGTTTATCATTTCGTTAACAGCTGTGTTTAGACAGNTGGCTCTTGCTTTG Sequence 4259

Sequence 4260

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTC
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATAT
TCCCAGGACAAAGCCCAGCCAGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAG
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA
GTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACCACCGGGGTGGACTCCCTGTGTAAC
TTCTCGCCACTGGCTTCGGAAAGTANACAGAGTTGCCATCTATGAGGAATTTCTGCGGAT
GACCCGGAATGGTA

Sequence 4261

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAATAGTCAATTATGTGTTCTTCTCATGCTC
AGTAAATCAGAACTTTACATAAGTTCAGGTGAACATAGAGTAGCTACCTGGGGAGATATT
TCACCTTTTATCTGTAGTGCTCTGCTTAAGAACAAAGGAAAAAACAGCTTCTTGCATGA
TTCAGCTTTTAGCTTAATTTTTTTCCTTTAGGCATAGTGAATTGGGGTCCCAGGTTTTTA
TTTTCTTTCACAAATTAAAACTGATATTTAGACTATTTCTCGGTCCACTAAATTTCTCT
CATCCTAAACTCCTGCTAACCACATGTAGTCTCTCTGTTCATTTCCCTATTTATATCAGC
ATTTCCTTCTTGTTGCCAACTTCAGTGCCACATAAGGGAAAAACAACAGAAATCTAACAC
CCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTTGGGAGAAACTC
CTGTGTTTATTTTTGTTTGTTTGNTTGGACGGTTGGGTTTTTTTTGNGGGTTTTTTTTGGG
GTTTTTT

Sequence 4262

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TABLE 1A 235/599

Sequence 4263

Sequence 4264

Sequence 4265

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTGTGGCCTTGAG
TATTTTTAAAAGGCTCAACTGTAAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTCAC
CTACCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAGAGCCATTGAGAA
ACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTA
TAGTTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCT
TGAATTTTCATAGACAATTGCAACAGTTTAGATGCCTTTTGAAAGGAATGCAATGAAGAT
TCAGCATCTGACTATATGTGTGTCTATCCTGAAATAATAATGGAGAGTATACTGTAGATT
ACATGTTTACCCATCAAATCTGACTTAAAAGGGTAAATGGAAGGTTTTATAGGTAANGTA
ATTGAT

Sequence 4266

Sequence 4267

TABLE 1A 236/599

Sequence 4268

Sequence 4270

Sequence 4271

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGACCTGACAGGGACGGAGGCCAACGCCGGGA TCGGAGGGCAATGAGGCTTGCCAGGAACAGTGGCGTCGGCTTCAATCCAGAGCCGAAGAG TTCTGATTTGATCTGATGTGATAGGCAAATGGGAAACTGCTTTGTAAACAGGGCCATGAT GTGAGGAAATGGTATTCTCAGAAAGACTGACCTGGCCACAGTGGTGTGCAAGACAGGCTG CAAGGGAGAGAAAGAATAGTCTGGAAGGCTGGCTGGGGAGGCCAACCCAAGCTAGGTTGC

TABLE 1A 237/599

Sequence 4275

Sequence 4273

Sequence 4274

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGACCACAGGCATAAGCCAGCACAACCGGCC TAAAATTTTCTAGAAAAGTAGATCTTATGTTACTTCTTACCACAAATAGTAACAGTGGGG GNNGGAAGAAAANCTTTNGGGGAGGGNGAAAAAGANATGGTNTATGGGCNCTTGATGNGT GGTGGATGGTTTCACAGGTGTATACTTAACACCAAATTTCATCAAAT Sequence 4276

Sequence 4277

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTCCGGCTGGGGCACTACCACGAGCCCAGA
TGTGACCTTTCCCTCTGACCTCATGTGCGTGGATGTCAAGCTCATCTCCCCCCAGGACTG
CACGAAGGTTTACAAGGACTTACTGGAAAATTCCATGCTGTGCGCTGGCATCCCCGACTC
CAAGAAAAACGCCTGCGATGGTGACTCAGGGGGACCGTTGGTGTGCAGAGGGTACACTTGG
AAGAGGGCCAAGTGGGCAACTTGAGAGGTTAAACTGCATGGTTTGAGTTTTGATTTGAGG
TTTACGTGTTGGCATGCATTCAGGGGCTTGTGTCCCTTCTCCCCTGATTCTTCCCTCCG
GGTAGGAGGGAAGAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGC
ACAAGTGTTTATGGGAAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTTACCAGT
CGAGTGTTTCTAGAGGAAGGTCATAGACTAATAGTCTAATAAGTCTATGACCTTTANTCA
TACTAGTGCACATGCCTGAGCCCACTCCCTGTGAACCCCCAAAATTTGAGACAGGTCTTA

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AATTAATTTAA

Sequence 4278

Sequence 4279

Sequence 4280

Sequence 4281

Sequence 4282

TABLE 1A 239/599

AATGCAGTTCACTGGCAACCTGTGTTTTACAAAGATGGTGTCCTACAGCAGCCAGTGAGA TTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGATGAAGAGTCAGGA GTTTGGCTAGAACAGGTTCGAGTAGGTGAAAGTAGGTGGGAATACTTTGGGATTT Sequence 4283

Sequence 4285

GATATCTGCAGAATTCGCCCTTAGCNNNGNCCCGNCCGACGTNCTCAAANNCCNGAATNN CCAATNGCCTGCTTTNGATGATGNNTACAGGAANATGCTGNCTGAGCTGAACACATTTGC CCAATNTCANGNGTGCACAGAAAACCGAGAATATNNANAATTCCAAATTTNTTTCTTAGG AGCNNGAATATAATGCGGACCTAAAGGNGGNNAGTNGNNGGGNAAGGGGTNNTGNGCTGT CCATCAGGATTATAAGGTGTTCCTTGACTTACTGCTCGGTTGGACTGGTCTATCATGGGC TGCACTATTCTTCCCGGGCATTAATAAACCAATTGTTCACTTGAAGGATGGTGAGTCCC CGTGTCTTGTGCCAACTGCTTTTTCTGTTCTTCANAAAGGGTAAGGGTGTTTAGATGCT GGAACAGCCACGCCCTCATGATATTTTGGGGCTACTT

Sequence 4286

Sequence 4287

TABLE 1A 240/599

TCTCACGCAGCAGATTTATTAGTTTTTGCCACATTGTTCCAGCTACTAGGTACACTGCCA TGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTATTTAAGCCATCTTTCTAT CTCTCANGGCCCCCAGTGGAGTCTCTTACATAGTAGTATGTGCTCAGACTGTAATCAATT TCAAATGAAATT

Sequence 4288

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGCAATTATGTAA GAGTGTTCAAATAGTTAAATAGTGAATCAGATTGCATTTGAACATTAAGAGTGTGGTAGC TAGCTAAATAGAGGAATAGCTGGGTCCTTTCTTGTGAAAAGTGAGTTTTTGATAATCCGT GAGTCCTAGTCGTAGGTAATGCAAAATGAGGTAGCGAGGAGCCTTATTTAGATGAGTTAT AAAATCCACAAATTATTTTGAATATAACACACTTGGTTTCAGTGCCCAATATTTCACTTG TTCAAGAANGGAAAAAGTATCTCTATGAATCTAAGAAGCAGATNGACTGACACCAAACTC TTCAATGTGATCCAAAATNGACACTTAAAATACAGAATCTTCTCAGGTCCCAACGTAGTA TACCTGCAGTGCCTGAATATGGCCCTGTAGTACCTGCCCG Sequence 4289

Sequence 4292

TABLE 1A 241/599

CCTTTCTCCTCCATAGCTGGGAAGTGATGGGGACAAGTGACAAGACTTGACCCCAGAAGCCTTGCCC

Sequence 4293

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGATTAGAAGTCCGTCTTCCGTCTCATAGGGA
AGTGTTAGAGATGGATAATGTTTCTGTGTAGCAGAAGTAGTCATTATGTCCCCTTAAATT
CGGTCACCTTTTGACCTGGCAGGTAATAANCTTTNTTTAGTGGAGCAGTCTGTTGATGGA
GTATACTTTCGGAGAAGCTCATGGTGGGGGAAACCTGGAATTTATCTAAATATTTCATTT
CTTTGATAAATTACATTAAAAAAATTAATAAGAGTATCTATTTGGTGAAATCATTTTCCTC
CACCGTGACCAAATGAGAAAATTTAGTGAAAGATTTAAAAATCATTTTTTCTGACTTTTTC
CACATTAGTTTGGGGAAG

Sequence 4295

Sequence 4296

Sequence 4297

TABLE 1A 242/599

Sequence 4298

Sequence 4299

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCNCGAGGTACACAAGTCACGATTAT ACAGTTTANTGAGTAAACACTGATCACACCCATATAAACCACTGCCCAGGCCAATAAGTA AAATATTACAAGCAACCCAAAAAAAAACTCTAGGCCTCTACCTTTAGAATGCGTTTGCAGT ATTTAAGACTATTGTAGNTCCAAAATTACTAAAA

Sequence 4301

Sequence 4302

TABLE 1A 243/599

GGGCTCTT

Sequence 4303

Sequence 4304

CGAGGTACAGTTACCTCCAGTCTCTGTGTATCTGGAAATGCACTTACATGCTATTCAAGT
TCCTTAGAGTGTAAGGAAAACAAAAGCTGTAGAGTTCTGCATCCATGGGGACTGAGACAG
AGCAAAGCACTTCCTAGTATGTTCAACTGGAACATGGCCCACACTGATCCATGGTCACAG
TTTGGAATGTGCTGAGAAGCTTCCATCTACAATCAAGTTTCTCAGTAAGAAGTCCCCGCA
GAGGGAGGGAGTCCACTGTGTACCTGCCCGGGCGGNCGCTCGAAAGGGCNAATTCCAGCA
CACTGGCGG

Sequence 4305

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATCTTAATATCGTTAAGAGATGGCAGCCAAGGGTAAAACTGAGTCTTCTTGGGCTGACTATGATGAAAATGCCAAGTGTAATCTGAGCACAGCCTAAAACTGAGGCTGAACTTTGGGACACCCTGAACTTGGGCTGGTAGCCCTTCTGTCCACTTTATCTACTGGGAACTCTTGGGACACCCTGCAGAAGGAGCTCGGGCTGGAAGCAGAAACAACCCATCTGAGCTAAGAAAAAATTTAACCTTTTAAAGGCAGCCTGTTATGCCTGACAGAATAAACTTACCTTTCCTCACTAAAACTGTCTATCCTTCACATTCCANGAATCCCTTCTAAAAAAACATATTCCATGCCCTTTTTCAAGAGAATCCAGCCAATCATTTCAGCTCAGACATCTCCCCATGTAAATGCTGGAAGCTATCCTCCCAAGCCTTTTTCTAT

Sequence 4307

Sequence 4308

TABLE 1A 244/599

ATGTCACTGGAAAGCCAGGAAGTGCAGGAATCATTTCATCAGGCCCAATAACTACACCAC CCCTGAGGTCAACACCCAGGCCTACTGGAACTCCCTTGGAGAGAATAGAGACAGATNTAA AACAACCAACAGTTCCTGCCTCTGGAGAAGAACTGGAAAATATAACTGACTTTAGCTCA Sequence 4309

Sequence 4310

Sequence 4311

Sequence 4312

CCCTTCGAGCGGCGCCCGGGCAGGTACGTGTATTTTTATTCTATGGGATTGAAAGATTT
TTTAGGGCCAGGAATTATGTCTTACCTGATTCCATATCTCATTTCTATCATTGATTTTCA
TTTTAGGGCCAGGAATTATGTCTTACCTGATTCCATATCTCATTTCTATCATTGATTTTCA
TTTTGCTCAAGTAACCAACTCAAATTGGCTTGAAAATAACTAAAACAACTAAGGATTTTG
ACATTAGTGGGTTCTTTGCAACCTGGTATGGGACCTGTAAATGTTTGAGAAAATGAAAGTA
ATGCCTTATTTTCCAAGAAGTTTGCATTATGCTCACAGGTTAATTTTATATCTTCTTT
TAGGAAAACTACATCTCAGACCCAACTATCTTATGGAGGGCCTTATCCCCATAACCTGATG
ACCGTAAGTCATTTTTAGCAGCCCTTTCTTTGTTAAGGACCATGGTCATGTCACTATTAA
TCAGAATTCATTCTTGNTATTCTCTTTAGGACCTTAGGCAAATGCATAAAATAGATGAAA
ATATGTCTTTGACAGTCCCACTGCCGTAAAGAAAAA

Sequence 4313

TABLE 1A 245/599

GGAAGTTTTATGAGGTTGAAAACTTTACTTTGAAATATTTAATTGGGAGACTAGACCATT
TCTTTTTCCAAAGTCATTCTGATTTATTGNCCTANTAAATGTATGTGTATGCATATATAC
TGATGGATTGACTGAATGGTGTGTGTGTGTGTGCCCCGTGTAAATCTGTTTTCATANG
GAACATACATTGGATGGCTCCCANTCTATTTTATACTAAAACCTAA
Sequence 4314

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCNAGCGGCCGCCCGGGCN
GGNNCANATGCTGGCATGTNCTGCCTGGGGCCANCTGAGTGTACCCTGTCACGGNCTTGC
TTACTCTTCCTCTGAGGTTACAGNTCCTANTGAGCCATGGNGAAGAGGGTNTTTNACACT
GANCCCTCACTGTTTATGGCAACTGCCTCGAACAGTCATTGATTTCAAGCTTGCCTACAG
GCACNAATGTATCCCAGAAAGCCAAGGATTNTGTTAATGTTTACAGGCCTTTGTAGATCC
NCACAGGANAGCTNAAATAGTAATCCTGAAAATGACAGTAGGGGTGACCCCTTACCCACT
CTGGGGCTNAAACCTATGGCTCAGGAGGCTTTTGGTGGCTGCCACANAATTAAGAATAAA
ATGGGAAAGGTCAAGTNTAAAAGTCAAGAATATTTTCACTGA
Sequence 4315

Sequence 4317

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGAACAACTCTCAGCAGAATAAGGAGAAG GTGTATATCATAGCACATGTTCCAGTGGGGTATCTGCCATCTTCACAGAACATCACAGCA ATGAGAGAATACTATAATGAGAAATTGATAGATATTTTTCAAAAATACAGTGATGTCATT GCAGGACAATTTTATGGACACACTCACAGAGACAGCATTATGGTTCTTTCAGATAAAAAA GGAAGTCCAGTAAATTCTTTGTTTGTGGCTCCTGCTGTTACACCAGTGAAGAGTG Sequence 4318

CCCTTANCAGCGGCCGNNCCGACGGGCNCAGANCTCCNATGGGTGAAACCANTGACATAG AGACTGTCCCTGTCCAGTGAGTANGGGCCCANCTCAGNGATGCTGAGGGTCAGCTGGCTC

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TABLE 1A 246/599

AANTCCAAATNCANCTGCTCTNTGTCCANCCCACGGCCTGNGGGGTCATGGCNGCGGGTGCAGATNGCACTNCACTCCNGAGGCTTNCCCATCTTTATNTGGCCTGAGCAANGTCAAGCCTGCNACCAGGAATACAGANGGCCAACACTGGTGCTCTTTGAACAAAGGCTTGAGCACACCCTGCAGAACACTCTNCGTGATGTTGAACTTCCTGGAGCCAGNGTGACCCATGTTCTCCTCATACTGTAAGNTANTGATGNTGAAGTTTATTGTGAATGGNATCACGAGAGGGCCGGTGGCTTGTAGTTTCAGGGAGGGAAGGTGGGATCCCAGAGGTTCCAACTATGGAGGTCCCAGGAGTGCTGGNGGTTGGTATGGN

Sequence 4320

Sequence 4322

Sequence 4323

CCCTTAGCGTGTCGCGGCCGAGGTACTGCATGCCTCCTTGCAGAGTGTTGTGCACAAGGA
AGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCCTGGGATGATTTGCACATCACT
GCTCAACTGTGGATTGTTTTTTACTTTTCCTTTTAAACCGGTTCGTATATATTTTTCTTC
GCTGTTACGAATTTACAGCAGCATTTGTACCTTCTCAGAAAAGAATGTTTGCAATGTTGG
CCCTCTGTCCAGCCACAGTAGTAGTGGGTCTAAGGTTGTAATTCAGCCTGATGACTCCTG
TTGTTAGGAGTTTCACAAGTGTGTGTTTTTCTTATAGTAGGTATTTAGAAATTTGCTGT
GGTAACCAGGCCCTGAGCCCTCAACCAAAGGGTAACTTTGTTTTATTAACCTTAGGGCCT
ATCTTAACTGTAAAAAGGGCATCTACTTTTGGTGTCCCAAGATCACATTTTNCTGCCNCAA
AGCATTTGTANGGGGGGACTTAAAAAAAAAAA

Sequence 4324

TABLE 1A 247/599

AGACAGCTGCTTTCTTTAAGAGCTCCAATTTGCCATTGAGATTTTTATCAACCNTAATTG TTCTCAAACAGTCACTCAAAGCTGATTACCTGGCTCAAGCATTTGATTCTNTTTGGTTGG ACTTGAAGGNCNGAANAANGGAAAAACCC

Sequence 4325

Sequence 4326

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGGGC CATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT CACAGAANNATNAAATNAAANGNANAACCGAGGGAGGAAGCTTAATTGTATTANTTCAAG GATTCTNTAANGGACATGAACTAATTAGAATATTATATNCACACACAAACACACACACA ACACATATATATNCATAAATTTAAAGGGAGTTTATTAAGGAGTATTAACTNACACAATCA CAAGGTCCCACAACAGGCCCGGG

Sequence 4327

Sequence 4328

CCCTTTCGAGCGGCCGCCGGGCAGGTACATGCAGCAGGCCCAGAGGCCACCAGAGGGCAGAGGGCTTTCGAGCCCGGGGCACCAGAGGCCACCAGAGGCCACAGAGGCCACAGGGCTTTCACACTTGCCCCCATGGCTCCGAAGTGGTAGGAGACAGGTTCCCTCACACCGGAGGCAGATTCCAGCTCCAGCTATGCCCGCACACCTGGGTCTGAGCCACAGTCTCCACCTCTCTCCCAACCTCTGCATCATTAATACTGCTCTGGGGTCTGAGAAAATACCTGCTTTTTCAGGCAGAGGTCACACACCACACCACACCACACCACACCACACCACACCCTGACAGTTTGCCCACGCAACCACTTCAAATCCCGTGGCACATACACCACAGTTCACTTGACTCTGATATGACAGCATAATACACASequence 4329

Sequence 4330

TABLE 1A 248/599

GAAAATTAATATCACAATAAGTCTTTAATAACATTTTATTAATAAGTGCTTAATTACATT
TCAGAGTATTCTTAGGTTATTGGCAAGTATCCCTCTTCTTGCATATATGTCTTCAAAATA
ATTTCAAACCATTATTCATATATATCTGNTTTATGCTTTTTGGGGGCCTTTCTCCCTAATTT
TATCTGNGCCTATTTATTGAACTACTTATTATACAGATTGAGCATCCCTAATTAGAAAAT
NCAAAATGCTCCA

Sequence 4331

Sequence 4335

CCCTTTCGAGCGGCCGCCGGCAGGTACAAAAAAACCTAAAAATTGTTTCAGGAATGTAG

TABLE 1A 249/599

AGAAATATCCAACTTAAATAGCGAAAAAGTGCACCATACCCGCGTACGCGGGAATGAAAC AGATTTATATACAGAGAAGTGTTATTTATAATCACAAAAAGAAAATAGAAAATATGCCAA GTGTTATGGGAGTGTTTAATTATAATTTGTAGAGACAATGAAATATTTGACTACCAATTA AAATGATATTTAAGGATTTTTATGATATGGGAAATATTTGTGACATATGCTAAGCCAAAT GCAGGATACAAA

Sequence 4336

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTNTAAAATTCTAAGTNTCTANGATTAAAA GTCCAAAAATAATCATTCAATTTTTAAAAAGTAATTTTATGACCTTCATAAGGGAGAGAC CTCTAACCTCCCGCAGTTGAGCAAATACACTCTGAGAGACATTANGGACTGTGGCAAAAA GCAGGCAATCCATGTGTGTCACTTAAGCCTTGAGCACAGTTCANTAGGCAACAAACCAGN AACTGTCCTGGCAGATAAAACAGACTGTGCANGGCATNGTCATCGGGATGGAAGGGCAT TATTA

Sequence 4338

Sequence 4339

Sequence 4340

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCACCACGTCCAGCTAATTTTTGTATTT
TTAGTAGAGATGGGGTTCCAGCATGTTGGCCAGGCTGGTCTCAACTCCTGATCTCAGGTG

TABLE 1A 250/599

ATCCGCCCACCTNAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCAGC
CTCAGAATGGTTTCTTTTAACTGCTTTTAGTAAAGTGCAAGAAGAGAGAAACTATTACA
CAGATGGAATTTATAATTTAAAAATAAGCAGAATATAAAGGTTAGTGATTTATTAAAACT
ACATGTCTTATCTGTTGCCAGCATCATGTAGGCACAACTCAAAAATGGGACATGAACAAG
AGCATAAGCTTCAAGAGAGCGTTTGAACAACTACAGATGATCACTACACACTCAGTAGAT
TTTAAACCGTGTTCTTCTCATTGGTCATTTATTTTGGGGATTGAATTTAGAGCATTTCCTT
TCTTGAATACTTTCAAGTTCCAATGGGCAGCAAAAATATTACTTGGATTTTTGGGGTTCCC
AACCTACAAAATTCTAACCCATTTTTCAAGGTGACAGAAAAAAACCATTTTGTACCCCGGC
ATTGGGAAAAAATTTCCTTGAGGCCTTTAACAACCACATAGAAAAANGGGCTTTGATTCT
TTTTCCAAAACTTTTAGCCCTAGGGTCTTTTATTGACNGGGGATAGTAAATGGAAATTGG
NAAATTTTAGATGAAAAG

Sequence 4341

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTCTCTGCAGAAAGCAGAAGACTATATGA
AAACAACATCCAACTTCAGTGGGAAGGGATATATCATTCAGAAAAGAGAAATAAAACCAT
GCTTGGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTCATCCTTTCT
TGTTTTCTCAACATTCACAATGTCCATATATAGAATTTGAATCATTTGACAAGGCGGTGG
ATGAATTTTATTCCAAGATAGAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA
AGCAAGCATTGAAGAAATTAGATAATGTT

Sequence 4342

Sequence 4343

Sequence 4344

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCCCGGGCAGGTAC
CTCCCTATTCCTTTGATAAGCCATTGCAAAGCCTGTCTAAAACAAAGCTATTTGCTTCAT
TAGCTAAGACTACGACTATTTTTCAACATGTCTGAGGAACGAGACCAGGCTTCTCTACTT
TTCAAAACTCCTCAGGTGATTCTTAGCAACCAGATTAGCATCAGTCCTTAGAACAACCTC
AGACACCCACTAACACACATGCCCTAGAGAGGCTAAGTAACCCGAAGGTCACAGAACCACAG
AGTTAATTAACAACGACAACAAATCACCCTTGGTGTTCCTGATTTCCGTCAAATAGCCCG
CCTTGCTGAGTCAGCACAACAAAAGATTTCATAACAAGGTAAAGTCGTCTTAGTAATGCC

TABLE 1A 251/599

CCCTTTCTAAGAAGTTACNAATATTT

Sequence 4345

Sequence 4346

Sequence 4348

TABLE 1A 252/599

Sequence 4351

Sequence 4352

CCCTTAGCGTGGTCGCGGCCGAGGTACGAAGGATCCCCAAGCCCTTCAGGCCCGAGATCA
GAGCCAGATCAGCCTTAAGTCACCTCCCATCCAAGAACTTGGCCTAAAAATACTCCCCTA
TTTTTNAAACCCCTTNANNGAACNGGGATTCTTGNANTTATTTAAAATGGCCTTCCCCT
TGGGGNAAGGNAAAAGGGGNTTGGCNTTTTTCCCCCCNCTCCCNCTTAAGGANGGGTTGG
CCNCNCAATTTTTCCCAATTAACCCCCCNTGGNGTGNATGAAANCTTGGTNANNGNAAGT
AAGNNCNANTTTTNGNGTCTTTGNNAAAGGNCNACTCAAGATTTTCCCCCTTTTTTNCCC
CCAATTNCCCCAATTTCTCCCCCCTAAAACCCTTCCTCCAAAAATTAAAAATNTCCCCTC
CCCCCAACNTTNCCACTTTCGNGCNAAAGGGGNTTNCTTTTCTAAGGGTTNGGTATCTAA
NTNGGCCNTTGGNTTCCNTTTTGGNGNGNGNCCAAGGNGGGGNTTNGNAAAAAAN
Sequence 4353

Sequence 4355

GCTCCAGCNGTCCGCCNGGTGCCGACGGTGTATCTGGATATATTCACNNTTAGCCNTGGN TCGCGGCCGAGGTACCGCGGGAGAGCAGCACGTAGCAGGCCCCCGTGGAGGATCCACACA GTGGCTGAACACTGGGAAAGGAACTGGCGCTTGGAGTCTGGACATCTAAAAGTTGGTAAAG TGACTGTGTCAGGAATTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAGGCCGCGGC CCCTCGCGCTCCATTGGGTTAGAGTCTCCCCGAGCGAGCTGGTCTCGGCAAGTGGCGTCC

TABLE 1A 253/599

Sequence 4356

AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTCTTGCCCAGGATTTGCACTCCACTGAG
AATCCAACTATAATTGCCAACATTTTCCACTTCTGTTGTTTAATTATTTCAAAAATTCAAG
TAACTATAGGCATCCTGAAACAGTATGCATTCCCTTATATTGCTTCGAAATCTCATATCA
CCTTTTTGACTACATTTAGAAGGCACGAAGTTTGGACCTGGAAGCACAGGTCTACTCCTC
TTCCATGGGAGACCAATAGCAAATGGAATCCAATGGAGCAGCTTCGACTATCACTTGGAA
GCCCTCTGTGAGCCACTAACCCACCCTTCTTCTTTGTGGCTTCTTTTTGAGCTTTAGATT
TGTCCAGCTAAAATCCTGTGTATCTTTAAAGCTTANCTCAAATGCCATTTTCCAATGTAA
AGCTTTTTGCCCACTGGTGNAACCAGAAATGATGTNACTTATGACATAACCCCACTTTTG
GACAAAAGTTGTATTCAAACCCCTTGCCTTTTTCCTTNTTGGTTATTGCCTAATTTATTA
ATTGGCCTTCCCCGACACCTAATGCAAGTGGCTTTGGTAAAATNTTTGCTTAAAGGCACC
CCAAAANATTGCTTTGGAGNCCAAAACCTTGTNTNCTTTGGNANGTNTTATTAAAAAACA
ACCCCNCCCTTTTTANGGGGAAAAAATTTTTTTAAACCAANTTTTTTTAAAAAACCTAGGGTCCCTTTTGGGCNGGCTTCTNNAAAAANTTTT
Sequence 4357

Sequence 4359

Sequence 4360

TABLE 1A 254/599

Sequence 4361

Sequence 4362

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTACATAACATGTCTTAACCCATTTATAA
ATATAAGTTAATTTCTTTAGAAAACCAGAGGCAACTTCTCTGTTAAGGACTAGACATTTC
ACAACTTTTACAAGGTATGGTGTAAATGCTCACATTTGTTTTCAAAGATTTCAGATAGCA
TCTAAAATGAACAATATTAAGATTCCACTTCCACTGACCAGTTTATTAAGGAAAGGGGAA
AGCATTTAAATCCTGGTCAGCATATTAAATTATTAACTTAAAATCCAGCAGTTTTATCAT
ATTTCAGTGATTCGAGTAAAATTTATAGTTNCCAAAAATGCAAATCAAGTAGCAGTACAA
TAATATTAGGGGACTTTGATACCCCACTTTCAACAATGGACAGATTATCTAGACAGAAAA
CAATAAGGAAACATTGGACTTGAACTTCTGTTTAGACCAAGCCGGACCAGACNGGACATA
TAAAGGAAAGATTCTATCAAAACAGCATCAGCATACACATTTTTCTTAAGGTGGCACGTGG
AACATTCTCCATGATAGAATCATATCNTTAGATGATGATACCAGGTGATAACNAATTTAA
GAAGAAAGGAAGTCANTTTCAAGTATTTTTTCCTTCCAGGGGGGNTAAAACNNGGAAATN
AATCNCAGGAGGAATTTTTGGGGAAATAAATTGGNGGNAATTTAAACCNACCGGGGCAAAAA
AAAAATTGGAAATT

Sequence 4364

Sequence 4365

TABLE 1A 255/599

TTAGAACAGAGCATGAAGGAATTCATGCCTAAAGTTATTGTTGAAAACAGCAGAGATTAT AGTAGTGAACATTAGAGAATTACATATTANTAGCAGCTAGAAAGAAAAAAAGACCAGCCAG ACATTTCAGAGAGAGACCTGTGGAAAGAGT

Sequence 4366

Sequence 4367

Sequence 4368

Sequence 4369

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTGGTGGGGACGAGGAGCTAGGGACTAACT
GTTGCTCTTGGTGGGCTTGGCAGGGACTAGCTGAAGATGTGTCTTCTCCCCGCCACCTA
CTTGTATTGAACACCCACANTTCTTCCCTTAACCAGCCTGGGGGTTTTGTTGAAGGGAAN
TATTGAAAAAAAGAAGCCCCTAATTTTCGNATNAGCCNTAAGNAAAGNGGGNAAATTAAT
TGGAAATAGNGTTANGGAAAAGCTNGAACCTTTNCCANAGGGGNTCCAACCGGAAGGGGT
TTCTCCCCCTTCNCCCAACCACTTCCTTGTTTCCACCAAGNGGCCTTTTCCTTTTTGACC
ATAACCGGTTAAGTTTTTGGGGAAGGCCNTAATTTTTTCCTTTTCCNCCCCCCCCAAGTC
CCAAAAAAGGNCCCCATGGAAAGNAGNCCTTTTTTTGGTTCNCCCCCCGGGGGCNCCTTNC
CCTTGGGGGAACCCAACCAATTAAGGGGGCCCCCAATTTTTAATTCCCCCTTGGTTNAAT
TTTCCCCCTTTTTTGGGGGCCCTTT

Sequence 4370

TABLE 1A 256/599

ATTGGA

Sequence 4371

Sequence 4372

Sequence 4373

Sequence 4374

Sequence 4377

TABLE 1A 257/599

TGTTAAAAAAAAANNNNNNANANNNAGGTTGAATAAATAGATCAGTGATATCCAGACCC ACATATCAGTATGATTAACGGTTCAGTGTTCATTTTCAGGAATCTGATTGGATAACTGTC **GTTTCATTTGTTGAAACATATAATTCAAAA**

Sequence 4378

AGCANTCAAAANAACCACAANGGAGCAGTAGTTTNTAAGCTTCCATGTAGGNGAANACAA AAATTTTTATAAATTTCATGAATACTTATATCCCAACTGTTCAAAATNTCAANATNTTTA ANAAAACTTGTAGGACTACAGTTAACTATTCTTTCCTCCAAATTTTTNTTTANANCCAGA GAGNCCAAAAATAAAAAANTTAAAAAATTNCCATNGNTCCTATNTAAATCATAANAATAA AANNNGGCCAAGANAANTTTTTAAGGACCCCCTNTTNNTCCNAAGCCAAGAAATTTTNCC CACATTGGGCATTATCAATAATGAGAACNTTCNTGANATCCTATNANCTTGNGNGGCCCT GTCTCATAAANACAGTAAAGCCACACAAATAAGGGTTTCCACTCCCTGGGCCTGAGCTNT GAAACCCAGCCAANACANAATCCNAAACAGCCANAGAGCTTCNTTTCTGANGGCAGNTGA ANTGAACATACNTTTTTTCCCGGNGTACAAAAANGTAAAGCCCNTGAANTTATTTTTC CCCCCAAANNTTTTGGGTGTTAAAACTTTTAAAAAAAA

Sequence 4379

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC CATATTGTGTATATCATCTGGGATATTTTAAAGGACAATTTATCTACCTATTAAGTGTCA CTGGGTTCTAAACAATGAAACTTGTTATCTGGATAGCAAAAAAACACTAAGTTGTAAAGCC ACAAGCTTCAATTACTTTAAAAAAATGAAAAAGCCAGTGTAAAAATTCACACTTTGAAAG AAAAAAGTTCACAGTGATACCTGGGAGCATCACTTGCTCTGTTTTAGGATTTCCCTTAGG AAGTGGCAAGCGTCTAAAACCTCATTTAAAAACAAAATGAGCTAAGATGCTGTCTTTCTC **TGCAGTTTCTGT**

Sequence 4380

GAGATTTAGTCCTGGTGCCTGAATTTGAGGGTCTCTCACACTGCTCATCTCAACAATCAA TATAAGTTATTAGTCTTTTAAAAATAACTGTAGTGTATNCAGCTTCTTCATTTCCTGAAG AAGAGGTTGATTTGCTCACAAAGGA

Sequence 4381

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTAT TGCCTGTTTCTTGGCAGCCAATGGTGCTGACCTGAGCATTCGAAATAAGAAGGGTCAATC GCCACTTGATCTCTGTCCTGATCCGAATCTCTGCAAAGCACTGGCAAAGTGTCATAAGGA AAAAGTCAGTGGTCAAGTGGGTTCTCGGAGTCCTTCTATGATTAGTAATGATTCTGAAAC CTTAAAAGAGTGTATGGTGCTCAGATATGAAGAGAGATACTCTTTTTGGTCCATGTGG ACATATTGCTACCTGTTCTTTATGTTCTCCACNTGTCAANAAATGCCTCATCTGTAAANA ACAAGTTCAATCCANGACAAAAATTGAAAAATGTGTGGTATGCTCTTACAAAAAANCAAC TNTTCTTTTTCAACCCTTTTGCCACATTTTTTCTTNTAAAGACTGTACTAACCTTATTA AAAAATTTTTCCANTNTCCAACCANTANTTTAACCAAAAANNCCTTTCATTATTTNCTT TNNAAGGAAAAATTCANAAAATTCCCCTTATTATNTNCAAATTNNAATTTTCCANTTTTC CAAANGNCCAGNTTNTTCCCATTTCATTCAAATTTCCAAAATTTCACAC

Sequence 4382

TCTTCTTGGTAACTTGTTATTTTTGAACCAGTTTATTTCCCAGAAAATGCCTTTTTCTTT CTTTATTCAGATTATCTCAGGCTAAACAACTTTCCTTTATCCTACTTCTCCTTAATTTTC CTTCAATTGTCTTTAATTTTGGGCTAAAATGTTTAAGTATAGAAGGATCTAGATACATTT TTGACAATGTGAACTAAAATCAAACCTAAAATTTCAAGCTTGTAGTGACACATCAAGACC

TABLE 1A 258/599

AAATATAATTTAACCCACTGAAGAAAGTGACCTGACCTCAAAGATTTTGGCCTAATTTCG AGTGACCTGGCCTGCAAAAAAGCATGACTTTAAATACT

Sequence 4383

Sequence 4384

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATATAGACAAGA CTTAACAGTGCATACTCTTAACTGGGACACATGCTGCCTCTTAACTGTGAGCAAAGGGNC AATTTTCCGACATCTAAAATAAGGACTGAAGTTTTCACCAAAAGTAAGAATTAATGAGAT GGCTAGGGTAAGACTGAAACTNCAAGATTATTCACTCAATATCCATCCTCCCTTTATCTT GGCAATAGAACCTATATTTTTCAAAAGTTTTCCCTACGGATAGAAGGTGGTCAGAAGAGG ATGTAAGCAAGAATTCACTTGGGTANGGANTTCCTGGAAGAAGGCCCTTTTGAAACTCTT TGGCTTTCATTCTGGCGGGGAAGTCAAACTTCATGGGCTGGAGCAACCACAGCCATTTTG

Sequence 4385

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAATTTTATCCATTTTATATATTAGATATCT GAGGCTTCCAGAAATAAGTGATTTGCTCAAAATCAGCACTCAAACCAAGACTCCGTGGCC CTAAAGCCCAGGCTCTTGCAATATAAGTATCATGGTTATTGAAAGCACGGAGAGTCATGT TTAAGTTAGGTTTATGATTTCCAGAAAATATTGGATTTAAATGATTCCTTCAATGAGGGG GCAGGCATGAGATAGA

Sequence 4386

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTAATTCCAAGCAGCAAAGGAACAGGGCAGCACCCAGTGTAACTGATAAGGTAATTCATGCCACACAAGACGCATTAGGTGAACCTGGTGGTGCCCCCTGTAGGGGAACAAGAGAAACTATCCCCAGAATCAGCCACCTCAGCCCCTAGTATTTTTTCTATCAATGCCTTGTATCAGCCTCAAAGCAGCCTGTTCAAGTTAACTCCCTGTTGAACTCCAGGGCCTATACCTCTCTTGGCTGAATAGATATAAGAACATCCTTGCCTGATGGGTTCATATTCCTCTTCAATTCTGCTGTCTAAAAGAA

Sequence 4387

NCCTTACCGTGGCCGCGGCCGAGGTACNACTAAAGGCAACTGGCATGGACTCAAATATTT
TGGGGAAGAAAAAGACTAAAAGTTCTAAGGAAGAAAATTGCGGACCTTTGATAGTTTTGA
AATAGTTNTNAAAAAGGANNAGTTNGTTANAAAAACCTTGNTTTNAGGGACAGNTTTTTG
AATNTAATTGGGAACCTAATTTNAGGAATTGAAATTACCTTCTGGGGGTTTCCTNGAANT
AAANTTGGGNTTANTTAAACGGGGGAGGCAAANGTTAAAAAAAGGTTAATTNTTTTTAAGG
GGGGGATTTCCCCAAAAANTTAAATTTTAACCGGTCCCCTTTGACCAAGATCCTTTTTTT
NTTTTCCNCCAAAAAAATTANAGTTCTTCCAATTTGNNGGNGGNGNAAAGNGGG
Sequence 4388

TABLE 1A 259/599

TTCTTNCAGACTGTCTATGCCTGTGCCCAANTCTGAATCCTTTT
Sequence 4389

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTCCAAAGCCACAGGATGAAATTATGCAGAA GTCTATCTTGAAAAGGTCCTGATTACTTTCACTAAAATTCTACCTATTAGAAAGATGACA ATATCCCAAAATAATAAAAGCTCAGAACTAAAACTTTAGGAAGTATAGGAGAAAGGAAGA ATGGGTAGGTAGACTGGGGTAAAGACGGAGGAGGAGGATAGTTTAGTTTATTACCTAACAG AAAGGCTATTAAAATGGACCGAGTTGTAGTCCTATCCCTGACATTTTATGTCCTTGGTTA ATGTGCTTAGCCATCTTGTGCTTCAAGAAATGTCCTCCTATCTGTTCAAACCTGTAATTT TTGAAGGTTTAAACCATGATTTTTCTGATAATCTTCAAACTGCTCACATCTCCTTTGTTA GAACTAGTATCTTANAAATGCNAAAAACGATTAGNTTTTGAAATCACATTGCTCCTAAAA AGAACTAAAATTTTTTNGANTTATCTTCGNNTTACTATTCCCTTTTCGCTTTTAT Sequence 4390

Sequence 4391

Sequence 4392

Sequence 4393

Sequence 4394

CCCTTAGCGTGGTCGCCGAGGTACGCGGGCCTCTTCCTTTCTCCGCCATCGTGGNGT GTTCTTGACTCCGCTGCTCGCCATGTCTTCTCACAAGACTTTCAGGATTAAGCGATTCCT GGCCAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATTCGGATGAAAACTGGAAA

TABLE 1A 260/599

TAAAATCAGGTACAAGAACCAGTTGGCAGTATGTAAATTCAGAGCTTTGTGGAACAGAGT
TTCAAAGTAAGGCTGCCGTCCGAAGGCACGAAGTGTCCATAGTCCTTTTAAGCTTGTAAC
AAGATGAGTGAAAATTGGACTCCTGCCTTCAGATTCCAGTTGTTTGAGTTGCTGTGAGGT
TTGGAGGAAATATGCTCTCAACATAATAAAAGCCACTATCACTGGCACTGTTGCAACAAA
NATGTAGGGTTGTAAAAACTGCGACAACTGCTATNGCTCCANTCACAATTAATAACA
Sequence 4395

Sequence 4396

Sequence 4397

GGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCAGCTATTT
TATAGACTATCCCTCAATTGGGATTTGTCTGATGTTTTTCTTATAACTATACTGGGATTA
TAGGTTTGGGAGGGGAAAACTACAGAGATAAAGCACCTCTTTCATATCAAGGGTACACTC
TATGATGGTCACGTNACNNTNAANTCACCTGGCAGACNTANTTCTCATAATGTATCTCCT
TTGTCAAGCANCACATGACTGTATAATATTTTACCTAAGAAAGAATTCTTCGGTGAAAAT
ACCAATGCTGTAGAATTACTGTANTCAATTTTTAGGTTCAA

Sequence 4398

GCATTGCTTTTTACATTACAATTCCAGATCAATATAAGCACCTGGAGAAGAACCCTGACA CATGTAGCCCAAGCTAAAGAAGTAGTATTTTTCATTAAGATACTATCATAAAATAAAGTG ATTACAGCTACTCCACATTTTAAAAGCAACATGTTTTTATAAGAAAATTGTTATAAATGA AAAACGTGACTTCTTGAAGACAGTTTTGAATGCTAAAAATGTTGTTATCACTACTGAGA GGAAACTTGCCTATGAAAAATATTATAATGAGTTTGTGGAAAAAAGTTAACAGGTTAAAT ATTTTAAGCCATTTAACTATAGCATAATATTAGTCATCTGAGCACTTTCAGTATCACTCT TATTTTATAAATTTATCCCATTTATTAATAGAAACTAGGGCCCTGATTGGCCAGGTTCT GTTATTTACTAATGGGGTCAAG

Sequence 4399

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCCCTAGTAACATAGTCTGTTGGGTAATACT GCCGCTGGTGGAACTGGAAGCCTGGGAACGGCTTATTAACTGTGCAGGTGTAGGAGAAGT GGAGAGGTTGATAGACGTTTGGGACATACTTGACTGCTGTGTGACACCTTCCTGTGGGAGA TGTAGATGGTCTTCCACTGGACAAACTTGCCTGAACAGCAGCAAGGCTCTGAAGCTGGGA GCTGCTTAAATGCTGCTGCTGAAGAGCTGCAGTATGCAGCATCAAGTGCTGTTGTTGGGC TGC

TABLE 1A 261/599

Sequence 4400

Sequence 4401

Sequence 4402

Sequence 4403

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGAGATCAGAACCTTGAAAGTCAGTGAGGACT AGGGGAATAGGAAGTATTTGGGCTGACTTGAAGTTGAGGGAAAGGACATCTACAGTT GAGGGAAATGGTATGGGCAGAGTCGTGGTCAGTGGTTAGGAAATGGTGTATGTGTATAT GGGGTAGTCCGAAGATCCACTGGGATAAAATAGAAAGCAGCAAATGTGCATCTGACAATT TTGGAGAACCTTTGGATATCTAACTGTATAATTTATTATTATTATTATTATTTTTTTGA GATAGGGTCTTGCTTT

Sequence 4404

Sequence 4405

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGCATTATACCTCTAGGCGTCATCAGAAA TTTGTGCTTAATATTGNNCACTNACATTCCNTGAACAACGNTNCCTACTNANATCCCTAG ACTAACAACATGAAGTCTTAGGGGTATAGTCTATAATCATTACAACACAGGAAGAAAATA CCTGGTATTCCATTAAGCGGNATAAACATTACTTTAGCATAGTGATTGCAGCTTNCAAAT ACACCTGACTCANATTTTGAATATTATAGTAAGCAAATTAAGTACCTGGGAAGAGTATTT TGAAACCTTCATCAATGGAAAAGTGGTT

TABLE 1A 262/599

Sequence 4406

Sequence 4407

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGTTTTAAAGAAATATGAGATTTGCAAGA AATTTCCAGGTTTCCTTTTGGGTACTGGCAACGTGGCTCTTTTCACCCTGAAAACTGAGA AAACTGCCAGTGCATTCACAACATACACAGCCTCTTCTAACCATGGGGGGAAAAAGGCTG GGAGATGCGGTAGTAACAGAAAGTTGGTAGTCCTAGGAAGTTATCATTCAACAAGGGTTT TTGCTGAAAGATAAATCAGCCCCTCTGAGGAGTTTTATGACTCAAACTGCTCTAAAGCCC CCAAGGCCC

Sequence 4409

Sequence 4410

Sequence 4411

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TABLE 1A 263/599

Sequence 4412

Sequence 4413

Sequence 4414

Sequence 4415

CCCTTAGCGTGGTCGCGGCCGAGGTACATTAAACTACATGATAATTAAATATGAGAAAGG
CAAATTCTATTTCACTCGTTACGTTTGACCAAAACACGGTAAACAGCATTAGCTTGCCTT
TTGCTCTCCCATACCACCTGTGAACTCTTCATCAGCATCAGACCAAAGATCCTTATGTAA
ACTTGAAAACCGGAAGAACATTACCTTCAGAAACACAGAAATCTAAAAGCAAAACAGCTG
TTGTGTATACAAGCAATTAAAATATGAAGGCTAAACCTTCTATAAACCTACAGAATGCCA
TTNTTAGATAGAACTTCTAACAGCCCTTACAAAATAGGAGGTCACCATAAAGTTAGGCA
ACAAGTGTCACTGCTATATGTAAGGCGGACAGGAAGATATCTTGTTTTGGAACTGAATAT
TCCTAACCTCATCCCTACAAGTATTTAAGGACACCTTTGATACTTGGCACTGCAGGAGAA
TTCAATTTGGAAAGTAGAATAA

Sequence 4416

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGTCATAAATATTGTTATCTTTTCTTGCACTC
GATAAGACATTTTACACTACTGATACGGACAGAGGCTGTATCCCCTCAAAGTATTTGAAG
AAACTACAAAAGGAGAGACAAAAGGATGTGAATTGTAGGAAGAATGGGGAGAAGGGGTC
ATTGGCAGTCATCTTGGGGACTGGCTATTGCCTCACAAAAGGATATGTGATTTTT
GCCNAANAAAAAAAAAAAAAAAAAAAAAAAGGTNCCTGCCCGGGCGGCCGCTCGAAAG
Sequence 4417

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTTAGAGACACGGAGGATTAAAGACTCAACGACTGAAAAATTTGGGGACTAACATGTAACTATGTTAAGAAAGTAATTCTTGAAAAATTC

TABLE 1A 264/599

ACTTACCCGGGACAAAGAAATGATGTTAATAAAACATTTGTTTTCCACTTNTCACCTCCA AAGGCTATAGAAGAAAACAAAAGTTGTATAAATACAGATTTTCTTTAAAGCAAACCAAAT ATCCATATTACAAATCTGATATTTGCCAAACTGTCAGACAGCAATGAGTACCTGCCCGGG CGGCCGCTCAAAGGG

Sequence 4418

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAACATGGNCATTTTTAGCCCTTTTCCTTA
GGAACCATGTCTTATTTTCTCAATAAAGAAATTACTTTCAACTTTCTAGGCTCACAGTC
ATTCAGATCATCTACCATCTGCCAATGAGATCAACTTGGTTGAGAATTTTGGGATTTTAA
ATTAGCTGTCCTACCTTTTTAAATCTCTTTTAAATCCTTCCCATATTAGGATCCAACAAA
ACTTTATCTTAGGAAATATGATAAGTAGCTTCCAATTGTTGTAGTGTGGTCTACAAATGT
GATTTGATTCATCTTCCCCCACTCTAATTTTCTCCCCCTTTTCTCCCCCTTACATGAGT
CTAAGTAAGTATTTGAACAAGTCATTTATGTATTAAATTAAGAACTGATATTAACTAAAT
GTAGGAACATTCTGCTTATACCAGTTTTTCTCATGTCGTAAAGTGTAGTTCTGGAAAAGC
AGAGCCAAATGAA

Sequence 4419

Sequence 4420

Sequence 4422

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATGCACTGAGGTAAAGAAGATTCATCTGC TCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCCAC CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGCC

TABLE 1A 265/599

AACTCCCCTGCATAAAGTGAATGAATGAAAACCCATCTTATATTAATCAGAGTTCTCTA GAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTAG CTCACATCATTATGC

Sequence 4423

Sequence 4424

Sequence 4425

Sequence 4426

Sequence 4427

GGTACNCTTGNNNTATCAANGNNANGNTCCAGCACNTCNNACANGAGCTTTTTATACCTA NCNNTNNTGGGAATAANAANNGATNCTATATGNNCNAAGCCCNTANCTTATNCNCTNGNN TTANTATGACNACNTTNANAATGANCACAGACTCTGNAANTGCTNCTNNCCTTTCAGCTG NGGCNANCGTNNGCATAANTANAGNAGTGCTGNNCATGGTGGNTTTGATNTACCNACNNT GGNGTATTNTNGATNTTTNATGAAGAANGGNAANTTCTAGNACANTGNNNGNNGNTNNNA ANNGNANCGNGCTCNGATACNAAACTAGCNGGNNTNGTGCGTCATAGCTNGGGCTGGCCA GGGCTTGANTGGGAGTTTCCAAAAGGGATTTATTATACCATGATCTCTGCTTGTGCATATGT TTTGGAGATTTTCATAATCNAATGTGAANATTTTTGATTTTCATAATCANAAATCAATCA AAATATGAATGGTATAACG

Sequence 4429

TABLE 1A 266/599

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTTGGCAAAGGAATGAAAAAAGTT AGAAAGTTGTCTGTCTGTGGGTTAGGCTCTGCCTGCAAGATCTTACAATCTAGGTCAGAG GTTCCTAAATCCTTCTCAATGCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAAGA CTATTGTAGAGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTAT GAGATTATGTCCTCTGCAGTTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGA GTTAGATAGTAGTCTTTTTT

Sequence 4430

CCCTTTNGAGNGGNGCGCCCGGGCAGGTACCGCGGGGAGGNTGTGGGAGCGGATGGAGCT
GCTACAGTCAGCGCTTGGGGCTGGCCTCANCTTGTAGACCCGAGCCCTGCANAACAACCC
CCCGTGGCNGCATGAGAGCAGAAGAAAGGGGGGCCTTTATGCCCTTTTGAGGGAAGCACAC
ATTCNTGCAAGGCCCGTGGAAACAAAGGGAGGGAACTGTTTTGTTAGCCCTCGTCCAGNA
CCGCCCCTAANACAAACAATGGAGGAAGGGAAAGGGCAAAGTTGACCTTGTCCAGGAGNC
CACTTCTGTTCAAAAAAGGGGGGACCTTGAGGTCCCTTCAGGGGGCCTTGTTTGAACTCCA
AAAGCCTGACAAAGNCAGGGTGGGCATTTNTTTTCTTTCANGAGCCAGGGGCCAANGTGT
TAAATTCTTGGGGACCCAATGGNGGTGGATTTCTTGAGGACCAGGACCCAACCTAACTTG
AAGNGAAGCCANAGTTTACACCCCTGTTTAAACCCTGCCTTTTCAAAGGGGGGACCGACTT
CTTNTTAAGAATTGCTTTTGCTTACCTTTAATTTCAAAGTTTTGACCACCGAAATNGCCC
CCTTTTC

Sequence 4432

TTCTCTTTGGTGGCCTCAAGATGCCAGGATAGAANTTGAGGTANTGGGATGCCCCAATAG CTATTGACCCAGACCAGTTAACAGAAGCCACCNCATGAGGAAAATGAGCTCTACTCTCC CTACTTTTGGATTTTATCCCATGCAGTGGCCACCAGATNGAATAGGTGAGGCACGTGTGG ATTCACAAAAGCATTGAGTTTATATGTACCTGCCCGGGCGGCCGCTCNAAGGGCTNAATT CCAGCNCACTGGCGGC

Sequence 4433

TABLE 1A 267/599

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTCTAATTTCAAATTTTATTGTTTCGTATTT CAGTATTTTTAGGGGAGGAAGGAGGAGTCGTGATTGATGCATCCCTTTTCTTCCTTGTTAA AAGCAAAAAGAACATTACTACCATGCAAGTGACTAGGGTGTTATATGGCGCTGTGGAATA AAAGTTAAGCCTCCTCCCACCCCAGCAAACCAGAATTTCTGGCATAAACATACCTTATAG AACAGATATATCAAATCTACTATGAAATATTTAGCATTCTGGATATCTTTAGAAGTTTAT TCTAGTCCTGGGCTGTTTATTTCACACATATTTAAATAACTAAAAGAGATATTTATAAAT TAAATTATTTATGGAACAATTACTTTACACATATTAAT

Sequence 4436

Sequence 4437

AGATATCTGCANAATTCGCCCTTTGAGCGGCCGCCCGGGCNGGTACAGTATATTTATCAG CCGANTTTTTTTTTATCGTTCCAAATTACATTTGGGGTTTCGGNATACGANTTTGAGGCT ACNANCCTTTTATGTTTATTGTAGTAGGGCCTTAGATTTGCNCCGAAAAGGCTAGGGTAA TANGTGTNTTGTTTACCTTACCACTTTTATTTT

Sequence 4439

Sequence 4438

TABLE 1A 268/599

Sequence 4441

CCCTTTCGAGCGGCCGCCCGGGCAGGTACANTGGATGGAACCCAAAAAGGCCACGTTACT CAAATGTTTCAGAACAAACTTCTCGATTAAAAGGAACTCTGATGAAATTACAGCTTCTTT AGAAATGAATGCCAGTGAAAATATTATTCATCAAAGTCCGCAGGAGCAGCCAGGAGCAC ACAGGAAACACACGCCGGAAATGCGCTTACAAAGACTTGGCGGGCACGTGGGCTCACGCCT GGAATCCTGGCACTTTGGGAGACTGAGGCAGGTGGACTTCAGAC CGGCCTAGGCAACACAAAAAACTTAAAAAAG Sequence 4442

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGCTTCTCTTCGTTTTCCTCCAGCTTCC
GGATATGGCGCAGGACAGGCTGCAGATTCATATAGAGGCGGTGGCTGTTGCTCAGAAGTT
GCAGGAGGTGTCTGGAGCGCATGGGGCACCCCGTGTAGTATATGAGCTTCCGGGCTGAAG
GCAAGCCATCTGGCAAAATCTCAAATTTCTTACCCACAAACACCAATTTCCAACATTTG
TCCAGGGGAAATCATAAAGTAATTGTTTCTCTTCATCTAAATTCTGAAAAAATCTGTATTC
CCCTCATGGTCAATCCAAGAGTCAGCGATGCTTCAATTTCCCTTTTATCCTTATACAATC
TGTAGTAATGAACAGCGACGTCATCCAGTCGGACAGCCTCTTTGATATATTTAAGATGAG
CTTCGGAAGCTGTTAGTGCAAACTGATCTTTGTGCATGTTTGGAATGTGCTTCAAGATGT
AAGTCCTTCC

Sequence 4443

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAATTCTGGGGTGCAT
AACCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCAT
GGGTCAAGCTTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCGGGGCCCACAGG
GTCAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCT
GAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGG
TCTGAGCAGGTGCTGAAGGACCCCCTCGGTGGNAGTTGAATGTAACCTGAAGCCCT
Sequence 4444

CCCTTGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAATTCTGGGGTGCATAGCCAT TGATGAAGAGGCCATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCCATGGGTCA GCTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCGGGGCCCACAGGGTCAGGGT GGTAGGTGCAGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCTGAGGAGA TCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGGTCAGGTGC TGAAGGACCCCCTCGGTGGAGTTGAATGTAGCTGAGCCCTTGCCCATATCTGGTGAATAC TGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTCAGGTGGTACCTCGGCCGCGAC CACGCTTAAGGG

Sequence 4445

CTTAGGGAGTCGACTCAAGCTCTTTCTTTCTGTTCAAGAAAGGTGATGCCTATCCCTACA
TGCACCAAAGATTAAAGTTCCAAGGTCCACAATGTAAGGCAGAATTCTCCCTGAGTGCTG
TGACCCCAAACATTGGGGGTATCTTTACGTGCTTTGGTTCTCAAAGCTCATCTCCTTACC
TGTTGTCACACCCCAGTGTTCCTGTGGAGATCAAAGTTTCAGGACTGGCAAAGTACCAGA
AGTCTTTGATATGGGTCTCCGTAGTCTTCTTCCTACTGTTCTTTGTCCTCACCCTCTTCT
TTTTCCTCAGACTCTGGCATCAGAACAAGCACAGGAAAAGGATCAGACAAAGATTGACT
TGCAACATCCAGAAGGAGCTGTAGAGCCAAAGAGCATTGTTGGACACCTGCAGAAGAGTT
CCAGACCAGCTNCTGCCATCCAGGAAGAAATCTTGTGTGAGAAAAGATGGCCTGGGAGGG
AGATAACTGAGGTCTCAGCATCTGATGCTACTGTGAANGTCACAAGGTCTTGCAGACAAT
GTGGAGCTAGGCATACTGAGCCCACATCAGGGATGACCCCTCATACACTTGTATGCCCAA
GGTGAAACCTGCTAGACTCAGAANGGCACAGACTACCTCTTTCTTTCCTGTTTNCAAANGG
AATTACAGGCACTTCTTAACCCCAGACCGGAAAAA

Sequence 4446

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGGTGGCTTGTCTA
ATATCTTGCATTTTCGTCCTTATAGTCATCTATGCAATAGGACCTTTGCTTTACTGGCTG
CCCATGTGTGTCCTTGCAAGCATTATTGTTGTGGGACTGAAGGGAATGCTAATACAGTTC
CGAGATTTAAAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTCANTAAG

TABLE 1A 269/599

CAGTGGTAA

Sequence 4447

Sequence 4448

Sequence 4449

CCCTTCGAGCGGCCGCCCGGGCAGGTACGAATGCGATCACTGTGGGAAGGCCTTCAGCA
TAGGTTCCAACCTGAATGTGCACGGGCGGATCCACACCGGGGAGAAGCCCTACGAATGCC
TTGTCTGCGGGAAAGTCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAACTCACC
GGAGAGAGAAGCTCTTTGTGTCATCCGTGTGGAAAAGGCTCCAGTGAGCGCGCCTGCTTT
AGAGACACAGGATGATTCAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGT
GAGCTCGCACCTTACTGGGTGCAAAAGAATCCACGGAACTTGGGAGAAGTCCAGTTCCTG
TAAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGTTTGTGAGAACTCACGCCGG
GGGTGAAAATG

Sequence 4450

Sequence 4451

TABLE 1A 270/599

TGATGACTCCCTTCTGTATAAAACTTTAATAGATTTT

Sequence 4453

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAATCAGAGGATTAAAAAATAATAAAAAAG CATAAAGGAAGTCCAAGTGACTTCTGGGACACCATCAAATGAACCAATTTGTGTGTATGG AAGTTCCAGAAGGAGGAAAAGTGAGAGGGGGCAGAAAGCATATTTAAAGACATACTGGCTGA GGCCAGGTGTAGTGGCTCACACCTGTAATCCCAGCACTGTGGGAGGCCAAAGTGGACGGA TCACATGAACACAGGAGTTCGAGACCAGCCTGGCCAACATGGTAAAATCCCGTCTCTACT AA

Sequence 4454

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGGTGGCTTGTCTA
ATATCTTGCATTTTCGTCCTTATAGTCATCTATGCAATAGGACCTTTGCTTTACTGGCTG
CCCATGTGTGTCCTTGCAAGCATTATTGTTGTGGGACTGAAGGGAATGCTAATACAGTTC
CGAGATTTAAAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTCAGTAAG
CAGTGGTAACAACGCAGAGACTTTNNTTTTTTTT

Sequence 4457

Sequence 4458

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCTGAAGACCCTCACACTCAACTTCACCA
TCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCG
AGGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCTTCT
ACTCGGGTTGCCAACCGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGG
ACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGCTGGACATACAGCAGCTTT
ACTGGGAGCTGAGTCAGCTGACCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACA
Sequence 4459

TABLE 1A 271/599

Sequence 4460

Sequence 4461

Sequence 4462

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTCCTTGGGCTGCAGTAAGCATGTCAGGTGC CACATGGTTCTGCAGGACAACTGTGCGCAGTTGAGCACGTTGATCTAATAATAACATAAG CCCAGAACTACTATCATTAANAGCCTTTTCTGTGTGCAAGCTTAAGACTTTGGTTTGCTG CTGGAGTAAGACAGTGCCTGCAGCAGGATAGAGTATTGTGACAGGATACCACCACCATGG GGTTCGACGCACTTGCAACCAGCGATATTTATAAGTTTCTAAATTACT Sequence 4464

WO 01/070979

TABLE 1A - 272/599

AATTGAGACCANGAAACTAGTCCAAAAACTAATTGACATTATTTCACAACATTTACAACA AATATCAAATTGGGAGAACCTGGCCAGGTTCCTAGAATGATGGNAAAAGGTCTATTTCTT AAACCCATTCATGAAATTTCANAACNTTTAAGATCCAAGATNGNCTTAAAGGGGATTGGG GAAAAAAATGCCCGTTTTTGGATAAGTGGAACGGGAATAAGATGGCATTTNAAAATGAGG CCGGGGANAAAAANAAATTGTTNTTTTGCCCAGNCATCCTAATCTGNGTAAGGNTTACTN CCAAGTANAAAAAAAAAAAAAAAA

Sequence 4465

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTTTCTCCACAGAGNNNCANAGACACCTATA GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC ATAATGATAACAAATAGAAAAAAAAAGATGCCCCAAAAAACAGAACTCAAGGAACAGAAA AAAAAAGTGTTAGAAAATAAAAGAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAA AAAATGAGAAAACTCTGAGAGAAACATCAAAGAAGAACATCGAGATNGGAGAGGCTAGA ATTCCATCTGTGACTTATGGCGACCTTNGGAAGGATCAGAAAAATTGGGGNCAGAAACT TGTCCAAAACTAATTGCATTATTTCACACCTTTTACCACCAATNTTCAATTGGGGGAANC CGGCCAGTNCTTGAATGNTTGGAAGAAGTCCTNTTTCTTAACACCTTCATGAAATTTCAG AACNTTTAAGATTCCAAAGTGGNCTTAAANGGGGTTNGGGGAAA

Sequence 4466

CCCTTAGCGTGGTCGCGGCCGAGGTACAACATGGATGCATGAAATTTTAGACATGATTCT AAATGATGGTGATGTGGAGAAATGCAAAAGAGCCCANACTCTAGATAGACACGCTTTCCT AAACTGCAAGATTGTCTATGTGGCCAGAAATCCCAAGGGATTGCCTGGTGTCCTACTACC ACTITCCAGGATGGCTTCCTTTATGCCTGGATCCTC

Sequence 4467

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTTTCTCCACAGAGCAACAAAGACACCTATA GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC ATAATGATAACAAATAGAAAAAAAAAGATGCCCCAAAAAACAGAACTCAAGGAACAGAAA AGGCTTATGTTTTAAAAAAATTTCAGAGAATTNGAAAATGTTTCTGGAAAGAAACCATT AAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAA **AAAATGA**

Sequence 4468

CCCTTAGCGTNNTCGCGGCCGAGGTACCGCAGTATGGTTGGCCATGGGATTATCCTTCAT TACATCAAATGAGGTATGGTGGACAATCTTGTTTATAACATCACCTGACCAAGTTTTCTC CAAGAATTCCAACACCTTGTGGATCTCATGTTTTGGATTTTTTTAATATCCTCGTAGAA GAGGTAGAGGATCCGGTGCATGTCTTTTGCAGCCCACCATCCTTTCACATGGTCAAACCA GGACCCGCCAACAACTTTTNCGGGACATGAATTTCTCATAAAATTCCTCTAAGTTCTGAG GATCAGGCATAAAGGAAGCCATC

Sequence 4469

CCCTTTCGAGCGGCCCGGCCCGGGCAGGTACGAAATATCGTATCAGGAATTGTTAAATTTT ATCAGCTGCTTTTCCAGCATCAGATGGTATATTTGACTTTTTGATCAATATCAATAAGCA TATTAATTTATTATTAATAGATTTCCCAGTATTGAATCACCCTGCATTCTTGGGTTA AATACTATTTGCCTGTGGTAGGTTGTTGAATGAATATGATCTTATAGTATTTGTTTATAC AATCATATATGAGACAATGAATATTTATGCTCATGTACCTCGGCCGCCGACCACGCTAA GGG

Sequence 4470

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATGTGGGTATGGGCAGCTGAGGAACTTA

TABLE 1A 273/599

Sequence 4472

Sequence 4473

Sequence 4475

Sequence 4477

TABLE 1A 274/599

Sequence 4478

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCCTGATCTCTTTTCCCCACATTTACAAA CGCCACAGTGAAGAACTTTGTTGCAAACACATGCAGGCTGTGAAAAGAACTCTGTGCCTA AAGTCCTTTCATTTCTTTGCTGGAGTTTTTTTGAGGCAGATTCTAGAATTGCTGAGTCAA AGGGCAAATGCCATGTAGTTTTGTTAGACGCTGCCAAATCCTCTTCCATGAGGCTGCAAT ATTCTGCATTCCATAGTGACGTATGAGAGTCCTTGTATCCCACAGCTTCATAAACAAAGC ATGACGGCACATCTGCACGTTTACCAATCACACAGGTGAGAAATCTTATCCTAGCTTCAC CTTTGTTTTTGGTTTGCATTTTTGTGACCAGCTTTTTTATGGTATAATGCACAGAAGGTA ATGAACACATTCTACCCACAAGCTTCTTCCTGTGCCTTTGGAATCTGCTCCTACCAGTCT **GCAGGCAACCACGGATCTG**

Sequence 4479

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGTTGGATGATGGATATTTTTGTATCCCTA TAAATATCCTTGATCTTTGTTCTGGGACACAGGTATTTGGAAACAGGTTTGATCCTTCCC AGGCTTGCTTTTCAGCTTTGTTAGGCTGGGACCACGGAAACATTTAGTCAAATGCCAGTT TTGCTCCACTATTGAGACAAACTCCTGAATACTTTATCCGATGCCCCATGAATAATATTT TCCACTTTGGTTGAAGGAAACAGGAAATATTCCCAGCCCTGTGTAAACCATAGGAATTGT TCCTTGTAATCACTTTGAGTGGTCCTTTCTCTGGTCTTCAGTAATTTCCTCACAGCCATG CACTTATTAGCTGAAGACTGAAGAGGGCCACTCCGCANGTCTTTCGGCGAGCTTTCTCTC TTGCAGCTCTCTGCTCACCAGCCCTGACCCTGGTAAACTCCAGCTACCTTGGTGTCTCAG AATTCCATTTCCATCTNCTCAACTTACAAGANGCTGCCCGGGCTGTGTTTGGGTTCCCCC CTCCCTNTGCTTGNANCCTGGAAAANATTTTCCAGGAAACCGACTGGGNAAATGCCCAGG GCTCATTAACATTTATNTTTTCAAAAGAGCCCTTGGCCTTAATTACCCTGGACCCCCCAN NGTTTTTGGGAAACTGNTTGGTTNCATATANTTTTAANCANGGGGGGGTTAANTTGGTTT NGGGG

Sequence 4480

GATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACACAGAAAGGCAGAAGTTGAA ATTAGTTTGAAGACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGT GAAGCAACATCAATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAAATTAGATTTTTA AAAGTAAAAAGGCAAAGAAATTTGCCACATATTTAATAATTACTCTTGGGAATGACTGCA AATTAGAGATGTTAGGTATTATTGATTCATTTATTCTTTAGCAAATGTGTATTGAACACA TACTATGTATCAGGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAG ATAATTAAAAATTATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAAATTATTAC AAATTATATACTACAAGGAAAACAAAGAAATAAAGGGAATTAATGGAGGATTTACCCTAG GGGTGGTTAGAAAAGGGTT

Sequence 4481

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACACAATCACAATTCACTGCAGCCTTGAC CTGCTGGACTCAAGTCATCCTCCCACCTCAGCCTCCCAAGTTGCTAGGGACAGGCATGTG CCACCACGCACAGCTAATTTTTAAAATTTTTCTGTAGAGATTAGGTCTCACTATGTTGCC CAGGCTGCTCTCAAAACTCCTGAGCTCAAGGGATCTTCCCACCTTGGCCTCTCAAAATGC CAAAGTGGTGTCCCATATATTTAAGTATCAAATGTATAACTGAATTTTCTTGCTTTTCAG GGATCTCAAGGGTATTTCCCTTTGCCCACCTCACCTTTTCATATTTGGTAAACTGGTATG CATTTGCCTTCAGCCCAAGATTATAAATATGAACTGGATTATGANCTGCATGTTCTCTCT TTNGGTTCAAGCAATTTTCCTTACAGAAAAANCACCCGGTGGGAAGTCATGGGGTAAAAT ATGGTGGTTGGAATTNGGTAACTTCCCTNTTGGGAGAAATTTCTTTGTGAAATTACCACA NCAAATAAGGGGAACCTCAATTTAAACTGGGAAAACATAAATCTTNATTTNGNAAAGNGG GGGGCCCATTTTNTAANATTTTTNTTTTTGGATAACCCTTCCCCTTTT

Sequence 4482

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCAGCCAGCAGAACATCGCTGGGACGTGCC TGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTTGGAGCTTTCTTGCCAGAAC TGATCTCTTTTGGTGTGGGGGGACATGGGGTACCCATTATCTTAGAAAATCTAGTTTAAA

TABLE 1A 275/599

Sequence 4483

Sequence 4484

Sequence 4485

Sequence 4486

CCCTTAGCGTGGNCNCGGCCGACGTACATATCAGAAACNGGATCTAACTCACAATATTAT
TATAAAGCATACTGNTTACATAATTNACTAANTAGGTAAATTATCTAATTCATTANACTT
GCTNGGAATCTTTTCTAGNTACACTCCTATGTATTCCAAAAGCTACCTAATACTCTATT
ACCCTCCCCTACAAACTACNGAAAAACTCAAGTCANCAACTGAGGGTGTAACGTGCCTC
CCCGGTTCAAGCNATTCTTGTGTCTCAGCCTCCTGAATAGCCAAGACTACAGGCACACGC
CATCACACCTGGCTTATTTTTACCTTTTTTTTTGTAGAGNCAGGGTTTTGCCATGTTGGCC
AGGCTCGTCTTAAACTCCTGACCTCAAATGATNCACCCGCCTTGGCCTCTCAAAGTGCTG
GGATTACAGGCGTGAGCCACCGNGCCTGGCCAAATAAAGTATTTTTAACATACAAGTTAA
GCATTCTAGNTNNATTCCAAAGTAAATACAGNGTGCTCAACAACATATTCTTGGGTTCC
AGGACAGANTCAACCAACCTANATTNAAAAATTTAAATCAAAAATTTAAAACCGGTNAAA
ANACAGTGGACCAAGGTTTTGAATGGCTCACCCCTGTAATNCCAAACACTTTNGNGNAG
GCCAANGGCNAGGACAAATTTGGACCTTGGGANGGTAAAANGNGCAAGGAGCCTNAAACC
ATNCTTNNCGCANTTCCANCCTTGGGGAAAAANAAAAAATNTGGNCNCAANAAAAAAAAA

TABLE 1A 276/599

Sequence 4488

Sequence 4489

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTAACTGGTATATAACCATCGGGGGCATTC CACTGGTAAAAGAAAGAATGCCTCAAATGAGCATGCATACAACTCCAGTAAACACACTGC T

Sequence 4490

Sequence 4491

Sequence 4492

Sequence 4493

Sequence 4494

TABLE 1A 277/599

GGAAGCTTTAGGGGAGAATTCATTCCCTTGGCTTTTCCATTTTATATAAACTGCCCACAT TCCTCGGCTCATGGGCCCAGTGGGAAATGCTGGGAAGAGTNCTTCTCATGCTGTCGTTCC CTGTTTTTCTCTTCCAAGTTTCTCTTTTTACTTTTAAGGACTCTTGTAATTACAACAGG TCCACTGGAAATACTCCAGGATAATCTCATT

Sequence 4496

CCCTTAGCGTGGTCGCCGANGTACATTCGGNCTGAGGGCCAGGACAGTNCTTTCTCC TGGACGGACCTGCTGAAGAATAATTCTGAGCTGCTTAACAACCTGGGCAACTTCATC AACANGAGCTGGGATGTTTGTGTCTAAAGTTCTTTTGGGGGGCTATGTGCCTGAGATGGTG CTCACCCCTGATGATCANCNGCCTGCTGGCCCATGTCACCCTGGGAGCTCCNGCACTATC ACCAGCTACTTGAGAAGGTTCGGATCCCGG

Sequence 4497

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACTATACATAACAACAAACTTGGAAGAAAT AATAACTTCTATTAGTAAAAAAAAAAAACCTCACTGTTATAAAAAGGGAAATGGCAAATT GAAAAAGGATACTGGTGAGATTATAAAAGATTAATATCAGTTCTCACTTCTTATAAGCCA ATAAAATAAAAATTAAACAAAAGAGAGGGACCAAGGATAAAAATAAAGGTAAATAACAAA AGGAGATACAAATGGTTAATGAGTATGGAAAATGTCTAAATCCCATAGAAATAAAA Sequence 4498

GAATCAAATTCCTGAAAGTGGGCAAGCGGAAGCGGAAATAAGCCCTCTCCCAACGCCAGC TGACTCGATTTCGTCTCGGTCTTCCCCAGAGCTGGACACGAGGCACCATGATCAGAGAGA CACATTCCCTGCGGACGCGCTCCCATCGGATACTGGAGGGACGCGACACTAGAGGCAGG CAGTACCTCGGCCGNGACCACGCTAAGGG

Sequence 4499

Sequence 4500

CCCTTAGCGGCCGGCCGGCAGGTACAGAAAGATCTGGAAGAAGGCCTGGCAGTGAATCCA AGGACTCTGGGCCCCCAACAATAGATGGTAGCCGTAAGTCTGGAGCAGCGGTGTTTCACC ACCAAATGCCTTTCCAGGCTGCCCTTCCAACACTCAGGAGAGCATCCAGATCCCTGGGCA GAGGCTCTACATTCTTGGCTTTAGAGGTGGTGGGCAGCGGCAGCAGGTCAGAGCCACTTC TGGCGGTTTCCCTCCCTTTTTAGTGCCCATAAGTTTTTTTGGATCCTCCCTTTGAGTTT TACCAGCACAAGCCATTCTTTGCCCCTGTTCACATAACTTGAGCTCAAGCTCTTGCCAAA CCCAACAAGCAAGATGGTTGCAACCTGGCAACATTGAATC

CCCTTAGCGTGGTCGCGGCCGAGGTACTACACATTATCAATCCCAAACTGATTTTATGAC TCTTGTCATAGAAACCCCCAAAACATCAGGGAGGGTAAGATATTCCAAATGGACCAATCA CAAAAAGGATTCCTGTGATTCAACTATCCAATACTTATGGCTATCAATTTAGTCTGGCTT GGGGCTGTTTTTTACAGGGAGGTGGCCTCCCATGGCGCACAATGTGTTTTTCTAAGCTAT CCAGAATGGCCACAGCAATCTGTTGGACATGGGGGATCAGTATGTTCATGATCTTTGATGT TGTATAAATGCTGCAATCCTCCTTCTTCAATCAGCATGCTGCAATACCTTGAAGCTGAAA AAGAAAAAAAACACACACAAAACAGGAGAAATAGCTTTTCTTAAAAACACTTGAAAATTA TTCCCAAAAAATGACTTCTAGGAGCCATTTTTTTTTAGCTGGTTTGTTATTGATCACTA ACATGCTTCAGCTTGGTAAAATAACCTCTATTCTTGATGTTACGTCTACCAGNGCAAGGG CCTTACACATTTCAATTCNATAAAATTAGCTTAGCTTGGATT

Sequence 4501

CCCTTANNAGCGGCCGNCCGGGCAGGTTCNAGGATATTGTTCACCCCNTCAACGGAAAGT GAAAAAACAGCNACCCCTGGAACCTNATTTCATTNTGAGGGACACTGGTCACCGCCCAGT GGCANGTAAAGAGAGCAGCCACCAGCCAANCGNAAAAGGAATNCAATGCNGGAGGCGGGA ATTITCTTAAGAGAGAAGAAGGGCCTTCCCTTTGCTGTAGGTGGAGTC Sequence 4502

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTATTCACAAAGTTGGGGCAAGGTGTGGTG GCTCCTGCCTATAATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCACTTGAGGCCAG GAGTTCGAGAACAGCTTGGGCAACATCATGAGACCTTATCTCATTTTTTAAAAGTGGGC

TABLE 1A 278/599

Sequence 4504

Sequence 4505

Sequence 4506

Sequence 4507

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCCGTAGCCGCTCCTCCCGCAGCTGTGCCGCC TCCTTGTCCTCCTCCTCATTGTCACTGCAAACAGGTCAATGTCATCATCCTCGTCATCCT CTGCTGGTGTGGCTGGCTTCTTGGCTGGGGCCCGTGGGCTACGGTATCCGGAAGCTACAG

TABLE 1A 279/599

ATTCAGTGTGGGGGGGGGGCGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACC AAGTTTGAGGAGCACGTGCAGAGTGTCGATATCGCANCTNTCAACAANGATCTGAAGCCT GAGTGTGTACCTGCCCGGGCGGCCGTT

Sequence 4509

Sequence 4512

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATNGGGTTTNACCNTGTNGGCCAGGCTGGTN TTGAAGTCCTAACCTCATGNCGGTCCACCCACCTAGTGCCTCCNANANTGCTAGGATTAC AGGCATGAGTCACCATACCNNNCCGNNTATNTGCAGTNATNAATTNTNATATTANNTNCA TGAATATTTTTANCCTACAAAATTCACTATNATCTTATGAGGAAATGAAGGTGTGANAGA CACCGTGTAACCNGNACAAAAATCAGNTTAAGNTACNCACCTTANCGNTNNGTNNTTATN NAAACAGGCANATTNTTAGNAAATAAGA

Sequence 4513

Sequence 4514

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGCAAGGGATGCAGTTATTAAATGCT GTTCTTCTCCTAAGTTGAAAATCAGAAACTTGTGGAAAAGAGCACTTGAATGTTGGTA CATGAGGAATTCTTATCAAAGATCATGCACAATCCATGCCACTTAAATGGGTTTTAGCTG

TABLE 1A 280/599

AGGTTTTGCTCATGTTACTCTGAATTTCTAAGGACAGATCAGTGACCCTCTTAGCCTGAG CAGAAAGCATATTCTTCCCACTGCAGTTTCCTACACAATTTAGTCCTGATTAGATGAGGC ATTATAGCAGCACCTGAAGTAGAGCCTCCAGAATCCACTGCCCTTTTCATCAAAGGCTAT TTGGTTCCCCCCTCAGGATTGGCATACTCACGAGACATTTTCACAATCCTAATGCATACT TTAGGTTACTTAATTAACCAAGCNATATGCTCTGTCAAAGAACTTATTTCAAGTCAAAGC AAAAAAAGGGNCTTAATGCNNGNACAAAAACCAAACANAAAAAGCNCTTTTCCCAATTAA

Sequence 4515

Sequence 4517

Sequence 4518

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGAGCAAATGCCAGGTCTAGCAAACATAATG CTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAAAATAGTAAAATATAA AAACAAATTAATGTTTTATAGACCCTGGGAAAAAGAATTTTCAGCAAAGTACACGGGTCT ATTTGGCAGTGACCTTGCTCTGGAGACGATGATATTCCTTCAGCCTGAGGGAATTGATGT TGATGAACCCGGTGGCATCAGTTGGCTCATAATCACCCCTGCACGTTCA Sequence 4519

TABLE 1A 281/599

GCTCTTATCATT

Sequence 4520

Sequence 4521

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGTTTTATAAAACTGCATTTAAAAAAAGA
TCTATGACCAGATATTCTCCTGGGTGCTCCTCAAAGGAACACTATTAAGGTTCATTGAAA
TGTTTCAATCATTGCCTTCCCATTGATCCTTCTAACATGCTGTTGACATCACACCCTAAT
ATTCAGAGGGAATGGGCAAGGTATGAGGGAAGGAAATAAAAATAAAATAAAATAAG
AATGACACAAATTTGAGTTTTGTGAACCCCTGAACAGATGGTCTTAAGGACGTTATCTGG
AACTGGAGAAAAGCAGAGTTGAGAGACAATTCTATAGATTAAATCCTGGTAAGGACAAAC
ATTGCCATTAGAAGAAAAGCTTCAAAATAGACCTGTGGCAGATGTCACATGAGTAGAATT
TCTGCCCAGCCTTACTGCATTCAGAGGGGATATATCAATGAACTAAACTTGGAACTAAAAA
TTTTTTAACCAAAAAGTTATTAAATTGAAGACACATGGNTGGTGAATCAAATGAANGATTT
TCTTT

Sequence 4524

NNTNNTCAAGNNGACGGNTATNTGANGAATATCGNCCTTAATNAGCGGCTNGCCNGNGCA

TABLE 1A 282/599

Sequence 4527

Sequence 4528

CCCTTTGAGCGGCCGTCCGGGCAGGTACCATGGAGGGCAAGAGAAGGACTTGAGAAAATG GTAGCTGAGGACAATGAGCGCTACCGATTAGTGAGCGACACCATCACTCAGAAGGTGGAG GAGATCGATGCAGCCATTCTGCGATCACAGCAGTTTGACCAAGCAGCTGATGCTGAGTTA TCCTGGATTACTGAAACANAAAAAAATTGATGTCTCTGGGTGACATCAGGCTTGAGCAA GACCAGACTTCTGCTCAGCTTCAAGTTCAAAAGACATTCACCATGGAGATTTTGAGACAC AAGGATATTATTGATGAC

Sequence 4529

Sequence 4530

Sequence 4532

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGTAAGAAATTGGCACTCAAAGGAAAAATGCA AAAGTATTTTCAACATGAAAACACAAGACAGTGGAATTGGAACTTTCGGATAAAACACTG TAACCCAGTTAGCTCTGTGGGGGTGTGGGGGGAGAGATGGGCCCTCAACATTTCTGCAGA TAACTTTTTTCCCCTAAATTCATCTAAATTACCTATCATTATCCCAAACAGGCACTTCAA

TABLE 1A 283/599

Sequence 4533

CCCTTCGAGCGGCCGGGCAGGTNCAATTCGTGTCAATTTGGCCAAACCAATGAGAA TTAAGGAAGGCTCTTCCAGGCCAGTTTGGTCAGATATGACTGGTTGAAGAAGTTTTCTGG GAAGACGCTTGAAGAGAATAAAGAGGAAGAAGGGTCAGAAGCCTCCCAAAGCAGAAGACC CAGGAGGTGTACCTCGGNCCGCGACCACGCTAAGGGCGAATTCCACACACTTGGCGGCCG TTACTAGTTGGATCCGAGCTCGG

Sequence 4534

Sequence 4535

Sequence 4536

Sequence 4537

TGGTCGCGGCCGAGGTACTTNTTTTTTTTTTTNGGGGGNNGTTTTGAGACGGACTCTCACT GTNACNCTNGCTGTTGGAGTGCAATGGCGTGGTCTCGGNTCACTGCAAACCTCCGCCTNC CGTGNTCAAGCGATTCTCCAACCTCCACCTCCCTGGGACTACAGGCACGTGCACCACCC TGGCTAATTTTTGTNTTTTTAGTAAAGCAAGGTTTCANTATNTTGGCCCCNTGGTNTTNA TATNCTGACCTTGTNAACCGNCCACTCAGGNCTACNAAAGTNCTTANGGANTAACAGGCG TGAGNCCANTGGCACCGNGGCCNANGAAATTTTTTTTATTTNTAANTTTTTAATTTTTGA TGAAGTATNTNCGGTGCTATATATTNACGTGANATTTTCTTTTNAAATATGTNAAANGGT NTNAATNTCAGTGACATTTCANATGGNAGGTGCAGGNGAAAAAGA

Sequence 4538

TABLE 1A 284/599

AAGCATGGTATCAGATAAGTTACTCAGCCTCTCTGCTCCCCCTTTACCTCATATGTAATG ACAGTAATAACTACCACTAGCATCATGGTACCTGCCCGGGCGGCCGCTCAAGGG Sequence 4539

Sequence 4541

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGGCCAACGGGCTCGGTTTCTATGGTTTTCT GGGGAGACGGCTGAGGGAAGGTCGGCTTCCGGCGTCGCGCTGCAAACGTCTCGCTGAGGT CATCCTTTACGGCAGGCGTCCGCTGCCTAGCTAGTCGTTCTGAAGCGGCGGCCAGAGGA GAGTCAAGGGCACGAGCATCGGGTAGCCATGCCTTTCTTGGACATCCAGAAAAGGTTCGG CCTTAACATAGATCGATGGTTGACAATCCANAGTGGTGAACAGCCCTACAAGATGGCTGG TCGATGCCATGCTTTTGAAAAAGAATGGATAGAATGTGCACATGGAATCGGTTATACTCG GGCAGAGAAAAGAGTGCAAGATAGAAATATGATGATT

Sequence 4542

CCCTTAGCGTGGTCGCGGCCCGAGGTACGGACTTCCTTTAGGATCTCAGGCTTCTGCAGT
TCTCATGACTCCTACTTTTCATCCTAGTCTAGCATTCTGCAACATTTATATAGACTGTTG
AAAGGAGAATTTGAAAAATGCATAATAACTACTTCCATCCCTGCTTATTTTTAATTTGGG
AAAATAAATACATTCGAAGGAACCTGTGTTATCACAGTAACCCAGAGCTGTATTTGGCTA
GCAATCTGCCTGTATCTCTCACTATTATCTAAAAGAAACCTTCCAATGCTTCTGTTGATC
TCAGTATTGTCAGGGGAACAGAGAAGTTGGGAAAAGATTACTGAAATATACCTTTTGCAT
TTCTTTCTAGAGTAGCTCCCATATATGGAGATGGGTGATTCTCTTGATGCCACCTTCAGA
TCCTTTTATTCTCCAGAATAATTCTTAACAGTGGTTCAAATTTCCTTT
Sequence 4543

CCCTTAGCGTGGTCGCGGCCGACGTNCCNCCAGCTNTNTGNTCTNCACANGGCTCCCCGC CNCACCCNGCCTGTTAAAGCGCGCCGACTGGGCTACAANGCCNAACAAGGTTACNTTATA TACAAGGATNCATGNTCGCCGNGGTNGGCGAAANCNCCACAGCNTCCTAANTGGTGCAAC TTACNGCAATGCCTGTCCATCATGGCGNTAACCAGCT

Sequence 4544

Sequence 4545

TABLE 1A 285/599

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGGCCCGGGCAGGTA CTACAACCAATTCCAAGTTTTAATTTTTAACACCATGGCGCCTTTTGCACATAACATGCT TTAGATTATATTCCGCACTCAAGGAGTAACCAGGTCGTCCAAGCAAAAACAAATGGGA CGGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTAGCACGATCTCGGCTCACTGCACC CTCCGTCTCTCGGGTTCAAGCAATTGTCTGCCTCAACCTCCCGAGTAGCTGGGATTACAG GTGCGCACTACCACGCCAAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCAT AGTGCTAGTATTATGGGGCGTGAACCACCATGCCCAGCCGAAAAGCTTTTTGAGGGGCTG ACTTCAATCCATGTAGGAAAGTAAAATGGAANGAAATTGGGTGCATTTCTAGGGACTTTT CTAACATATGTCTATAATAAAAGGGTTAAGGTCNTTTTTT

Sequence 4546

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGGCAGTTGGGACTTAGCGAAAATTTGGGC TGGÇCTGGATCATGAAAAGAAGCTGCTATCTTCTTACCTCCAGAGAGTCATCANCATTCA AGCAAGCGATGTATTGAAGAAGATCCCTCATTGTGGCAAGCAGCCCATCAGGATGGCAAC ATGGGCAGACACCAGCCCTGGCCCCACTTAAGTGGCGGGTGTCAGTCTTCTGTGTTTCTG GTACTTGCTAAGGGCATGATCCTCTTATGAATCCACCAGAATTCAGCCATCAACAAAAAT CCCGTGAGTGGAAAATTGTATGGATCTCTAACATGACATAAAAAC Sequence 4547

ANTITITITINAACTAACCCCNNCCNTTTTTTTTNANGGAAAGNANNCANTTNCAAATN GGATNTTNNTTTTAAAAANGNGNTTTAAAAANGTANCTTTNNTTTTANCACNCNNCNTNN AACAAAAAAAANTTTTCCCCCCCCTGGAAAAAAAAAAAGNGTGGGGAATTTNTCNTTNN TGGGNAANANNTTTTTTTTAGNNCNNAAGTTTTTTTCCCAAAAAANAAANCCACAAAAA TTTTCAAAAAAATCCTTNNNGGGGCNCCCTTTTTCNCCCNTTTTTTTNTTTCAAATTA AAAAAAANCAAAAANTGGGTTAAACCACCCCCTTTGNTTGTNAAANGTTTTNCACCCCN NGGGGGNTTCCNTTTTTTTTTNNA

Sequence 4548

CCCTTTCGAGCGGCCGGCCGGGCAGGTACTCTGATGTTAGGTGTGCATATGTAGTTAAAT TTATTATAACATTTCTTTGAATTGATCCTATATTATTATATAGTGACCGTCTTTGTCTCC TTTTACAGTCTTTGACTTGTTTATTTTATCTGGTATAAGTATGTGTAACCTTGTTCTTTT TTTATAGGTGACATGGGTTTCTTATAGGCAGTATGTAATTAAGTCTTGCTATTTAAAAAT TATTGATAGATAAGGACTTACTACTGCCATTTTGTTACTTGTTTTTGTGGTTGTCTTGTAG TTCCTGTCTTTTCTTTCTCACTGTCTTTATTCATGCTTAAGTGAGTTTCTCCAGCAG TATGTTTTAATTTG

Sequence 4549

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGGCTGTTAAACAGATTTTTGAATTAAAC TTAAAACCTCTTGCAATTTTTAAAAGCGTGTATCAATACTTTAAGAAAACTTTGTTGTTT ACACAGACTCTGGTCCTGTATCATGTGATNCCCTGACAGCAACATTTAATTTTTANAATA TCGTGATAAACAATTTTCTTTNTCAATACNNAGGTGGGACCCANTCNTCACAATGAAAAC CTTTTTTTTNATTGAGNACCAGGNGGGTTTTANGAAAAATCCCTGCTTTNCTTANTTNTG GGTTTAAGTTTCCTTTTTCANCTCNACNTTTTTTTCAAACCCCNCNCNACCCCCCNCTCA AANGTGCCTTTTAATNTGTTCCTTGTGNAAATATANTTTGCTTTTTTTTNAAAAAAANNA AAANTTTNATTGGGNAAACCAAACCAAANTTTTTTAAAAAAAANTTATNGGGNTNAANAAA TNTNTTTAACCCAACCANTTACCNAANTTTTNTTTTTACCNCCCAAAAAAAT Sequence 4550

TABLE 1A 286/599

Sequence 4551

Sequence 4552

Sequence 4553

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGTCCGCACAGAGGTCTGCGAGGAGA GAGAGTGTCTTCATTCTTTCCGCCNTCTTGATTCTTTCTCACTGACCAAGACTCAGCCGT GGGAAATATGAGTTGAGCTTTGTAAGAGCAAGATCCCAATCCTCAGAAAGAGGAAATGAC CAAGAGTCTTCCCAGCCGGTTGGATCTGTGATTGTCCAGGAGCCCACTGAGGAAAAACGT CAAGAAGAGGAACCACCAACTGATAATCAGGGTATTGCACCTAGTGGGGAGATTGAAAAT CAAGCAGTGCCTNCTTTTTAAGG

Sequence 4554

TABLE 1A 287/599

CCCTTTCGAGCGGCCCGGGCAGGTACTTTNTTCTTNTTTTTNTTTGGCCTAAGNCA AACCNCAGAACTTTATTNNGGNAAANGANNGCATTTTTTNGTTGGCAAACNATANNCTCC TATGAAATACTCTTAGAGATGTTTATNCTGAGCTAGTTTTTTTTGCGGGGGAGGTGCTGTT TACATGCTATGTTA

Sequence 4556

Sequence 4557

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGCCACAAATTCATGTCTTCCCAGAATCTATG
AATGTGGCCTTATTTGGAAACAGAATCTTTGAGATGTCATCAAGTTAAGAAGAGGTTACA
CTGGATTCAGGCAGGCCCTAAATCCATTATGACCTGTGTATTTGTAAGAAAAATTCAGAC
ACAGAGATTCAGACACACAGAAACATTGTTATGTGGTGGCAGAGGCAGATATTGTAGTGA
TGCATTTCCATGCCGGGAAATGCTAAGGATGCCTATAATAACCAGAAGCTGGGAGACAG
GCATGGGGCAGATTCCCACTCTGGATGCCCAAGAAAGAATCA
Sequence 4558

Sequence 4559

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGGTAGTGAGAGAGTTTCACTATGTTGCC CAGGATGGTCTCAAACTCCTGAGCTCAAGTGATCTGCCCATCTCAGCCTCCCAAAGTGCT GGGATTACAAGTGTGAGCTACTGCATCCAGCCTGCAATTGGTTTTGACTGCACAAGAAAA AACATAAAAAAGGTTCCATGAACCTTTTTATAACCTCTTATAATTGTTACCGGTTTTAAT TTCTTTCCTCAATTTTTCTATGTCCATTCAGTTT

Sequence 4560

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACAGA
TGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGTCTTTCCCAGCCTGCTCAC
CAACCCCAAAACTAACATTCAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGCCGG
CCGCCAGGACCAGATACAGCAAGTTGTAATCATGGATTAAGTCCCATTCCTTGTCAGTG
TTCTCTCTAAGGCAGATTTTAAGACACAAAAGGAAGCTGTGTGGGCCGTGACCAACTATA
CCAGTGGTGGAACAGTTGAACAGATTGTGTACGCNGGTCCAAGCAATACCATAAAAGCTT
GAAGCAAAAACAGCTTTTAAATCAAAAAGCAAAATTTTTAAAATTAAAACTTTTAGAGAA
AAAATAAATTAGGCATGAGAATAGTAATTATCTCTGTAAGTTTCAAGTAAAGACTT
AGGTGATTATTGTAAAGATAAAAAATGGAAAATAATCATT
Sequence 4561

Sequence 4562

CCCTTAGCGTGGTCGCGGCCGAGGTACACCACCAAAGACCAATAATAAAAAAAGAAGGTTC

TABLE 1A 288/599

CAGGGAGGCATGACCTCTGAAATTCCCCATGATCTTTGGGTGTTTAAATCCCATTTTCC
CTTCTGAGTCATTGGTCATCCTTGGTCTCAGTAGATCAGGCACGTTAGAACTGTGGCAGA
AGAGATAAGAATGAAGCANCCAAAATTGAGCCTTTGCTTCTTAGGTAATGCTGAAAAGTT
TCCAACTTGGTCTGTTTACTCAACACTTTATTTTTNCCACTTTTGCCAGCTTTAAAATCAA
GACAGCGGCTGGGCTTTTGTTGTTGTTGTTCTTTTTGATCCCAGNGCCCCATGAA
AATTTAAACCNGTGTGTTGGATGGGATCTNGCCACGTCTCCATTGGGTGGGGGGAGGAAT
TNTTAAA

Sequence 4563

Sequence 4564

Sequence 4565

Sequence 4566

TABLE 1A 289/599

AAAAAAAAAAAAGGAGGCAATACTNCCTACTCATTTTANGAGGCTAGCATAACCTTGATA GCTATTAAGGCCAAATTNGAAAGGCAGTTNTNGGNCCGTCTTACTGATAGCATAGNGTAA AAGCTTTTCCTTTAAGGTTAGAAATCTGCCAGAATGCCNCCTNTCAGCCTTTCTTCTTC CTTTTCCTTT

Sequence 4567

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATNGNGTTTTACCNTGTNGGCCAGGCTGGAG CTAGAAGTCCTAANCTTATGACGGTCCANCCACCTAGGATCTTCNANANTGNTAGGANTA CAGGNATGAGTCANNATACCNNNCCGNATATATGNANTNATGAATTNTAATATNANNTNC ATGAATATTNTTAACNTACAGAATTCACTATGATCTTTATGAC

Sequence 4568

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAGAGACGGGGTTTCACCGNGNNAG CCAANATGGTCTCANTCCNCTGACCTTGTGATCCACCCACCTAGGCCTTCCAAAGTGCTG GGATTACAGACGTGAGTCACCGCNCGCAGCCCGCTTTTGTGGTTTCAAAAGTTCTCACTT GCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAATATCANTGGAGAGAACAGAT GTNTTAATCTATAAGACACTTATACATGCACTAAANAAAAGTTGACTATACTGAANT CCCTTATAAAAAGGGAGTTGTTAAGGATAATGGAATGTGGATTGGGCTCTTTCANAGACT CCATACAGGTNTATTTAATTANCAAAGG

Sequence 4569

Sequence 4570

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTTTATAATAAAATTGTAGTAAAATACTGA CATTNGNNNGTGATNAANNNNGNANGAGTNCATGTAAAAATCATGTTATAGCATGTAAAA TTTAATTNGAAAAATTCATAGCTCACAAAAGTACCTCGGCCGCGACCACGCTAAGGG Sequence 4571

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACACAAAAGGTTCAAACATCGAGATGTT CCCTTAGCAAGGCTGAAAATTTCAGTCTCTGGTATTTGGAATTTAGGCTGCAGTCCTTGT TTTTGGATGGACACTGGGTGTGTGGCACAGTCCATGCTTTTAACCAGATTTGAACAGAA GAATGGCCACTTGGCCCAGGTAGAAGTAGAAGTGTTTGGTTTCATGTGTCACATAAC TACCGAAGTTCCTCCCACGATGCAATGCCAGGTGGGATTGTACATCATTAATAGGTCCG GTATGTCTTCCATTTACTGGCAACTTCTCCAAACTCATCTAGAGTTTCCAAACACATCTA TTACCTTTCCAAATACNGTGTATTNCATGTCCAAATGTGGCTGTTTGCCATAGGTGATGA AGAACTGAGATCCATTGGTGTTCNGGCCATTATTAGCCATAGATTCAACACCTTTAACAT TTGTGCTTAANAATATTTCACTGTATTCATTCCCTCAAACTTTCTTTG

Sequence 4572

TABLE 1A 290/599

Sequence 4573

Sequence 4575

Sequence 4576

CACAAGGTAAATTGTCTCACCTGTGGAAGTTTCAGAGGATTCTGTTGAATTTGAATCANT GCCAGTTTTGCTTTCAAGGTCTGTTTGGCAAGAGTCTCATCTCTATTTTCTTGTGCTTGG CTTTCTTCTTCTCCTCTTCACCATCTGGAAACTCCCACTGAGACTCGCCCGACTGTTCG TTTACATAGAAATACCGTCTATGATCCCAAGTTTCAGATGTCCGGACTCCAAGTGCCANT TTCTTCCCGGTGTTCAGCCACTGTGTTAATCCTCCACAGGGAACTGCTACACGCTGCTCT GGTGAGGCATTCCACCGGGGCAATTTCCTACCCGGGAGTGCTCTTTG Sequence 4578

Sequence 4579

TABLE 1A 291/599

AGATGGTTCCTTTACTGACGAGCACAAAAGATTNGGTCATCAGTCTTAGTGGAATACTAC ATAAGTTGGATCCTTATGACTATGAAATGATTGAAAGNTGTCTTGAAAGTTATTAGAACG AAGCTNATGAAAAGATAACCAATATTAATATTAATCAGGCATTGAGTATTCTGAAACATT TGAAAGGTCATACCCAAGAATTTCTTC

Sequence 4580

GGGGNCCCGNAAAATATTTGGGGGGGGCCCCCTTTCTTAAGATNAGGCCATNGGCTTTCC GGAANGCCGGGCCCGGCCCCAANTTGGTTGGAATGGGGAATTATTCTTTGGCCAGGAAAA TTTTCCGCCCCCCTTTTTACCCGAGGCCCGGGCCCCCCC

Sequence 4581

Sequence 4582

Sequence 4583

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTACCTGAATGCTTCTATTCCTTTTTTGATC
TTCGAAAAGAATTCAAGAAATGTTGCCCTGGTTCACCTGATATTGACAAACTGGACGTTG
CCACAATGACAGAGTATTTAAATTTTGAGAAGAGTAGTTCAGTCTCTCGATATGGAGCCT
CTCAAGTTGAAGATATGGGGGAATATAATTTTAGCAATGATTTCAGAGCCTTATAATCACA
GGTTTTCAGATCCAGAGGGGAGTGAATTACAAGTTTGAAAGTGGAACTTGCAGCAAGATGG
AACTTATTGATGATAACACCGTAGTCAGGGCACGAGGTTTACCATGGCAGTCTTCAGATC
AAGATATTGCAAGGATTCTTCAAAG

Sequence 4585

TABLE 1A 292/599

TATGAAGAAAAAACAAGATGAAGAAATAAATCAAATAGAAGAAGAAGAAGAACGAAGCAGAT TTGTAAGAGCTGGAAAGAAGACTCGGAATGGCAGGCATCTCTGCGAAAATCCAAAGCAGC TGATGAGAAGAGACGCTCCTTGGCTAAACAAGCACGAGAAGACTACAAGAGGTTATCCCT CGGGGC

Sequence 4586

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGATGGGAGCAGCTTCACCAACCCCTGCAAA GTGACTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCGGAAGCTGACTGGTCCAC GCACAGCTGAAGCATGAGGAAACTCATCGCGGGACTAATTTTCCTTAAAATTTAGACTTG CACAGTAAGGACTTCAACTGACCTTCCTCAGACTGAGAACTGTTTCCAGTATATACATCA AGTCACTGAGAGAACATCACCACCCTGAAGCCAGAGACTAACACTTGCAGGACTCAGCAG GACTATTTAAGAAACAACTGAGGCA

Sequence 4587

Sequence 4588

Sequence 4589

Sequence 4590

Sequence 4591

TABLE 1A 293/599

TATAAATGAATAAATCAAAATAGGACAGATAGGCAGTGTGGGAAGCTAAAATATGGAAGT GTTATTGCTTTATGTGGTATAATGATCTGATTTTATCTTCCCAGCTCTCCCAGG AAGTATGCAGAATAATATTTATCTCATATTGNGGGGTGTGGCAATCAAGACAGAGGGGCT AGATGCTTTACCTAAA

Sequence 4592

Sequence 4593

Sequence 4594

Sequence 4595

CCCTTAGCGTGNTCGCGGCCGACGTACTTGTTTCTNTGCANANAGCAGANNACTATATGA AANCAACATCCAACTTCAGTGGGAAGGGATATATCATTCAGAAAAGAGAAATAAANCCAT GCTTGGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTCATCCTTTCT TGTTTTCTCANCATTCACAATGNCCATATATAGAATNTGAATCATTTNACANGGCGGTGG ATGAATTTATTCCAAGATANAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA AGCAAGCATTGAAGAAATTAGATAATGTTCGAAAGGATCACGANANCAGATTGNAAGCTC TTCAGCAGGCTCANGAAATNGACAAACTGAAAGGAGAGCTCATAGAAATTGACCTACAAA TAGTTGACAGAACCATTCAGGTANTTCGAAGTGCTTTANCTAACCAGATAGATTGGACAG AAATTGGGTTAATTGNGAAAGAAGCCCAGGCTCAAGGAGACCCTGTTGCAAGTGCCAATC NANAGAATTAAAACT

Sequence 4596

Sequence 4597

TABLE 1A 294/599

Sequence 4598

Sequence 4599

CCCTTAGCGTGGTCGCGGCCGAGGACATGGAATGCTTGTATTCTTTTTAATTATCAAGGC
ATCAGTGTGGTTCTTAAAGCCATGTGCCTGTGTATGCTTGCCTAAGTGTGAATGACATAC
ACAGACATAACCTTACATTGCTTTCCCAAAAGGGGAATGCCACCAACAAATCAACTAATT
GGTACTTTNCTTTTTTTTTTTTTTTTTTTTTTAGGGGGACTATAACCCATTTTCTATTAA
TGAGCACATGGAATCTTTATTGCATTTTTCTATCATAAACACTTCTACAATAATTGNGCC
TGCATAANATTTATTCTATATTTATACTGCTGTATTTCTGAAATAGAATTCCAAAATTCA
TAATTTTGTCAGGTACCTGCCCGGGCG

Sequence 4601

Sequence 4602

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTAGACAAGTTCTAGATCTCTGANAGATGA GCATATGCTCATGGCTGACAAAAAACTTATCATCATCCGGGTCCTTTGGAGAAAATCT CTTTCCCATTAATTCATTCATTATATCATAAATGATGAAGGATGATCTCTTTAAAGGGTC TCCAGGTTGATCAAACAGGCGAATAATATGGTGATATGTTGCAAGCGAGGGTTCTCAAAT TACCAGGTAGACAGAAAAAATAAACAATGAGGTAAAAACACAGCAATCCAAAACATAGTT TACTGGAGACCGCACTGAATTAAAAACATATTGTTAATATTTAAGCCAAAATATTGCATT TCTATTCCTTTGAACAAAGTTATTT

Sequence 4603

TABLE 1A 295/599

Sequence 4605

Sequence 4606

Sequence 4607

Sequence 4608

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAAATGTAGTTATTGGAAAAGTCTGT
AACCTGTGGATCATATATTCAAAGTGAGACAAAGGCAAATAAAAAGCAGCTATTTTCA
TGAATAGACAAAGTTGATTTCAGGAAGTATAAATTATTCTGCACCGAACAAGGAACAG
AAATTATTGCATCTGTGGAACATATATCTGGAGTTACTATACTTTACTGAAGAGCAAGGC
ATAAATTTAGACTAAAATCCATCCAGATTACACTCATTCTTTAGGCTACTCCTGGATACT
TCATTTAAATTTGATTTTTCGAGGTAGTGA

Sequence 4609

TABLE 1A 296/599

GAAGGAGAAGCCTCCTGGAGCAGCCTCTCCATGGGATGAGAAAGTCGAGTTGTATCCGC ATTAAGTTCAAGG

Sequence 4610

Sequence 4611

Sequence 4612

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTGTCTTTTCTTGATTGTCAGCTTTCTTGT GGGCATCATCCAGTTGCTGTTGAAGCAACCTATTTTCACTTTGTAGTTGAGCACATCTGT CCTCTATAGATTCCTGCTTCTTCAGCGTATTTATTTACTTTGCTTTGTTCATTTTTATAC ATTCGTTCAATTTCTTTTGACACTGTGTTTGGCCAAGGTCTCTTTGGAAACATTCT AAAACTGACGTCTTTTCTCTGAGTGTTTCTCTTGCATGATGAAACTTAATTTTTAGGCTG TTAATTTTACTGTCAGCATTAGAGAGGTTTTTTCAGAAACAATCTGTTATCTTTTAGGTTA GACATATCAGAATTCATTTTCTCCTGTAAATGAACCCATTCATGTCCTGTTCTCTGGAAA GCAAGTTCTANGTTTTCTTATGCTGTCTGACTTTGATCACAATCATGTAC Sequence 4613

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAAAAATGTTTTCCTTTTGTTTTACC
AGGAATGAGTTCGGGCTATACTCTTTGAAACTGCTTTGTGAGCAAAGTGCTTTGGCAAGG
CAAGGGTCTCCCTCAGCAGGGCTAGGTGCACTACAGCCTCTTTCCCCGTGTCCCGTTGGA
TCTGAGCTGTGTAGCACTTGTTGCATTACAAAGAAAAAGACTTCTGCAGGAAATAGNGGT
AGAGAACAGGCTGTCTAATCAGATGCAACTTGATCTGTGGCAAAACCAAGTGTGGTCTTT
CAACTTCAAGTGTGTTAACATCCCAACACCTGGGATGGGGTTTGTGGGCCAAGTTGATTT
TGCCCACACTTGTANGGNCCANGTGGTCCCATTGCCACCGTGAAGCCAAATTCTAGCCCA
AGTCTGGTANAACAAGTCGGGCAANNTAAGTTTTCGGGGGGANGATGATGTGTGGGGACAA
AGGACCTTANTNGCCTNTTACGGACCCTTTTTCCAAAACTAAATNATACCCNANAACTTT
GGGGGGGATGGTTAAGTTAAANTTAAAATATTTTTTAAAATTCTTNATTTNGGANTNTAAN
GGTTAAGGGGGNAATTTNGGNAAACCGTTTNAAAGGGGNNGTNTGAAACCCTNAANNATT
TNGNGGNAAAAAAAAAAAAAAAAAA

Sequence 4614

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTGACTGGCACTTCTGGCTTGCTGTTGTCCT TGGAGAAGTCTGGGCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTCACAGG

TABLE 1A 297/599

Sequence 4615

Sequence 4616

Sequence 4617

Sequence 4618

Sequence 4619

TABLE 1A 298/599

GCACANAGGGCACCTGTACACTGTATGCATCATCAGTCCAAAGTTTTTCANAGTTCTATGTGACTGGTTGAGGAAACACTGCTTGAATTT

Sequence 4621

Sequence 4622

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGCCTCATCGATCTAATCTAATCCCTATGAC GACCTACAGAGATAGATACTATTATCTTTGTTTTATAGATGAGGAAGCTGAGGCCTAATG TTAAGTAATCCCCCTGAGGACTCANNCCTGGGAAATTAAAGAGAGCAGGATTAGACTCAG GTCT

Sequence 4625

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGGAAAAACTGCAGGAAATAGACAA GAGAAAACCTGAAAACACTGCTGAGCTTGAGATCTTCCAAGAAGGCATAAAGGTCTTAGA AACACTGGTTACTGTTGCTGAAGAACACCATCGCGCTCAGCTGGTGGCCTGTCTTTTGCC CATCCTCATTTCCTTCCTTTTGGATGAAAATTCTCTGGGATCAGCAACTTCCATAATGAG AAATTTACATGACTTTGCTCTACAAAATCTCATGCAAATTTGACCTCAGTATTCATCTGT TTTTAAAAGTTTTAGTGGGCTTTTTCTCCAGCCCTAAAAGCCCGTCTTGAGGCTGCTATA AAGGGCAATCANGANAGTGTCTNAAGTCAAGNATACCAACATCTAAAATNTTNCTAAGAG TCCTGGGNAAAA

Sequence 4626

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATAGA TGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAGGGGAGTCCACCCCGG

TABLE 1A 299/599

TGTGGTGCCTGGTTGGGGACAGACCTGAATGTTGAAACTTGACAGTCAGAAAAATAACTC TTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATTTCTTTTGTTCCTC TGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGTAGGTTTGGTGATGGT GAAATTCAAGGTAGAAAGTGCTTGGGTGCT

Sequence 4627

Sequence 4628

Sequence 4629

Sequence 4630

Sequence 4631

CCCTTAGCGTGGTCGCNGCCGAGGTGTCGCTGAGACTCGGGGAGCCATTGACCATCGTCT CTGAGGATGGAGACTGGTGGACGGTGCTGTCTGAAGTCTCANGCAGAGAGTNTAACATCC CCAGCGTCCACGTGGCCAAAGTCTCCCATGGG

Sequence 4632

CCCTTAGCGGCCCGGGCAGGTACCTTTTATGTAAATTTTGCACAGAAATTTTTGGC ATAAGTTTATTTTCTTTCAGTTTAGTTCAGTGCACTAATAAAACTGGTTGTTTAAT TTAAAAGGAATATAAGACTTTACCCATGTTATTTTCTTGGTTTTTATTTCAGATGTAG ATTTTGTTTTTGAGGTAAATTCGTTCTTCAGGGATTGAACACTATTGTTAGCAAGTGCCT AAAAAAGATGTGAAACAGTTTACATATGTCAACTGTAACAGTAGGTCCCAAAGGCAACTT

TABLE 1A 300/599

TAAAGTTCTGGAACCAAGACGGAGGGCGAATATGGGGGCAAATAAAAACAATANGATACC TCCTAAAACTCTTTTTCATAAGTGTTATTTAAAGCCATCAAACTGTCCAGGTGCAGTGGC TTATATCTGTAATCCCAGCACTTTTGGAGTCTGAGGTGGGAGGATTGCTTGAGGCCAGAA CTTTGAGACCAGCCTGGGCAACATAGACCCCTGTCCCTTCCNAAA Sequence 4633

Sequence 4634

Sequence 4635

Sequence 4636

Sequence 4637

TABLE 1A 301/599

TATTTTCTTTTCAGTCATATAAAATTTTTATACTTATAGAGACAAATTTAAGAATCATTT CTTTTATTGCTTCTGGACTTTGGTTCGTAGTTAGAGAGCATTTCTTAACACCCGCGTACC TCGGCCGCGACCACGCTAAGGG

Sequence 4639

Sequence 4640

Sequence 4641

TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCATCCTGGGTAATGGGAGTG
AAACCCTGTCTCAAAAGTAATAATAATAATAATAAGGGAACGTTCCAAAACCTCATCTGG
ACTTGTATTTATCTGAATCTTTTACAATATGACTAAAGTAGTGGNTACCAAATTCTGGCT
GCATTATTATTATATAGGTGTGTTATTAAAAAATNGNGAATTTGCAGCCCGG
Sequence 4642

Sequence 4644

TATCTGCAGAATTCGCCCTTTCGAGCGGTCGCCCGGGCAGGTACCCNAAAAGAAAGGAAG CTTAAGTAATGAAAGGATTGCTGCCAAAATCCTGTTTCCCCTTGCAGATCTTACAGAAAA CAGCCACAGAATCCCAAGGCATCAGCACCAAAGAGAGCCTGTANAAACTATCTGGTCTAA AGCTNCTTGAAGCCCAGAGATAAGAATGACTTAACCCAAGCTGCACANGCCTCTTAACAG

TABLE 1A 302/599

TCCACTGNTAACCCCAGAAACAGATGCATTTGAATCTGAAAGGA

Sequence 4645

Sequence 4646

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCAAACTAGAGACCAAAACTGGGCACTTACA
ATGAAAAGGCAATTTTCTTATCCAGCTATAATCCTAAATAAGGCAGGATATATCCACCAA
ATTACCCACAAAATTCAGCAAAGTAAAATAGCTCATGGGAAAACATAAGCTGGAAAAATA
CTAATAAAAAAACTGAATTACTTCGAAGTAGTCATCTGAATATTCACAGACTTGTTTTCA
TTTACAAATGTAAGTCAAAAAAAGTCTCCTCATCTTTCTAACCACTACGAGGATTAAGGAT
TTAAGTTATTCACTAAGTTAATCATGAAAAAAATAGAAAACATTTTAATTCTAAATTTGT
ATACACAACAGCTAAAAGACACAAGGCTGGGGAAAATTTATTACCAGGGAGAAAAAATCAAT
TGAAAGAAAAAAAA

Sequence 4647

Sequence 4648

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGACCACACTGAATCTCCCCTCCTCACAGT
TGCCATGTANACCCCTTGAAGAGGGGGGGGGCCTAGGGAGCCGCACCTTGTCATGTACTT
GCACAAAAAAAACAAGCAGTTATTACTATTTAAAATTCTATTCCTTCACCCAGTTTTCTC
ACTCAAGTAGAAACTCATGAATATCTGTGATTTTGGCTATAGGACCAGGCCACAANGAAA
GGGCTGAAAATATNTCTAAAAGTTAGGGAAAAAGTGTTTTCTTTGAGACTTTGAAANGCA
GT

Sequence 4649

Sequence 4650

TABLE 1A 303/599

Sequence 4651

Sequence 4653

Sequence 4654

Sequence 4655

Sequence 4656

CCCTTCGAGCGGCCGCCCGGGCAGGTACAATGGTGATCTCAGCTCACTGCAACCTCC GCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGTTGGGATTACAGGCA TGTGCCACCCCCTGGCTAATTTTGTATTTTTAGTGGAGCCGGGGTNTCTTCATGTTGG TCAGGCTGGTCTTAAACTCCCGACCTCAAGTGATCTGCCCGCCTNGGCCTCCCAAAGTGC TGGGATTACAGGCGTGAGCCATTGCACCTGTCCCTTGCCAGTGTTNTTAAAATAGGTT TAGGGGGTTGNGAAAAGATGCAGTGAGCCATTAATTCTNCTTTAGCAAGGTAGTCTCTTA AAAATTGATGTTGGATTTTAAAAAATATACCA

Sequence 4657

WO 01/070979

TABLE 1A 304/599

PCT/US01/09126

TCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAAATTAACAAGATTCTACCTTAAAAGAG AAAACTTATGTGGGCTTTTCAAATTGTGAAAATTTGTTCCCTCTTATAAAATATAATCTT TCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCCCAGAGCCATTATAAAGAAAAAAC AACCAACCACAATAAACTAAGGAGCCTCATCTGATGGCTAAGGTTCTCAGGAAAAAATGA GAAGAGCACCTTGATCAGGAAAAAAGGATAAACCTTTAAC TTCTA

Sequence 4658

Sequence 4659

Sequence 4660

Sequence 4661

Sequence 4662

Sequence 4663

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGTCTTCATTTTGAAGGCTTCCATAGTTA
TATAAAACGATGATTAAATAAACGTGCTATGCTTCTCGCTTGTTAACCTGCCTTATTATA

TABLE 1A 305/599

GCCGTGTCAGCTGTGACCCTTTTGATAGGAAGGAAAGAGTCACACTATTTCTGCCCTTA
TAGTTCTGATGATGAAGATGGGATGTCTGAAGCACCTGACTCACCTATTGATGAGGTCCT
GGGACAACTGATAAAGAGCTGGCAAATAAAGGTAAGAATTTTTACCAAGGTGAGTTCTGA
ATCTCTGCCTGTAGTTTCTGGTCAAGAACTAAAGGTAAAAATTTATCTTTATATCTTACT
TTCCAAATGCAGGTCAGCAGGAGATCATTTGTTTGAACTGTTCTCTTATGTAAATTTGGA
TTTCAGGGACTCATTTGTTATTGATCCTTTCCCTTCAACGAACAGCTGTCATTTTCCTGT
TTTGTGTCCTGAGAACCCAACTTGGCTTGCTGCCTGTCANGACACACTTTGGTGTGAA
NGGGGCTAAACAAATGTTGGAGGCTCCCATTAAAAGCTTACATATTGCCTATTGCCAGCT
CTTCAAGGCATCTAAATCTTTCTTTTT

Sequence 4664

Sequence 4666

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTC GCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTC GGTGTACTTTNNNTTNTTTNNTNNTNTTTTTGAAAAAGTAGTTAGCATTTAATGAAACTC CCTCCATGTGGCTTCAAGCCACCAGGACACAGGCCCCCCCAACACTNTTAATCTTCTCCT CAGCTCTTCTGCTGAAAAATTTGGCCTTCACGATGACAGGCTGCTTTGGGAAGCTTTCCCT TTCCCANAACTTTATAAGTAGCCCCGATCGCACCACATNAATGGATGGGGAAGCCAGCCC Sequence 4667

CCCTTAGCGTGGTCGCGGCCGAGGTACNGANCNATACAANNNANTNTTCTCCTGTNATCC
TAACAAAAACCCTATATTTGNTTTATCCCCATTTCAAAATGGGAACTAAGTACATATAGA
GTGNAACTNGCCCCANATACACACTTCTAATCATGAAACCTATATA
Sequence 4668

Sequence 4670

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGTGAATAGTGGTATAAGTAGAAATTCTCG TCCTGTTTTCAAACTTGCAGATAAAGCCCCTAGTCATTCACCATTAAGTATATTAGCTTT TGGTGTGGAGTTTTTCATCTTGGCTCACTGCAGCCTCAACCTCTTAAGCTCAAGTGATCC TCCCACCTTAACTGCCTGAGTAGTTGGGACAATAGGCATGCACCACCATGCCCAGATAAT

TABLE 1A 306/599

TTTTTTTAATATTTTGTAAAGATGGGGATTCCCTATATTGTCCAGAATGGTCTTGAAC
TCCTGGCTTTATGCAGTCTTTCCACCTCAGCCTCCCAAAGTTCTGGGTTACAGGTGTGAG
CCACTGCGCCNGGCCAATTTTGGTTTTTCATGGANGACTTTTAACAGGTCTCAAAAAGTT
TTCTTCTAATAAGNTTTCTTNGGNGGTCTAATCATTCATAGGNNGTTGGAATTTACCAAA
CTTTTTCTATTTCAAGTNTTACATTTTTTTACCTTTGGTCAAGTAATATTGTNTCATATTA
AAAGGAACATTGGATTGNGAAAAAACCCTGCTTAATCATTGGGATGGAAATATCCTTATN
CCTTTTTGGAATTCTTT

Sequence 4671

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAATTTCAGTCCTGGCTCTGCCACTTAGCCGA
ATATCTGACCTTGAGCAAGGCACTTAACTTTGCTGGACCTTGGGTTTCTCATCTTTAAAA
TGGAGATAATTTCATCTTCTTATGATGGATCTCTTCAGAGAAGTAAGAATAATGAAGATT
TTAAATCATCCCAATATAGTGAAGTTATTCGAAGTCATTGAAACTGAAAAAACACTCTAC
CTAATCATGGAATATGCAAGTGGAGGTGAAGTATTTGACTATTTGGTTGCACATGGCAGG
ATGAAGGAAAAAGAAGC

Sequence 4673

Sequence 4675

TABLE 1A 307/599

GCCAAATACCCCTTNTTCTACCAAAAAATTACCAAAA

Sequence 4676

Sequence 4677

Sequence 4678

Sequence 4680

Sequence 4681

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCCAGAAGAGTTTGCACTTCGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGGAGTCATACCAGGACCTG

TABLE 1A 308/599

GTGCAGCGGCTGGAGCCTGTCATCATGGAGCTGGAACGTCAGGGCAATGTCCTCGTCATC
TCCCACCAGGCTGTCATGCGCTGCCTCCTGGCCTACTTCTTGGATAAGGGCGCAGATGAG
CTACCATACTTGAGATGCCCTCTCCATACCATCTTCAAACTTACTCCTGTGGCCTATGGG
TGCAAAGTGGAAACAATTAAACTTAACGTGGAGGCTGTGAACACGCACCGTGACAAGCCA
ACTGCAGCAGAGACCACACTGGCTGTGCGCAGACGCCCCTCCGCAGCGTCCCTCATGTTG
CCTTGCTAATGATGTGGGATGTTCAGGCCTCACCTCTCAAACGACTGGGATCTACTGAAAA
GCTTGGGATGTCAGCTTCACAGAGGCTAGAACAGGAAAGTTAAGTGGGAACTTGG
GGGGCCACCAAAACGAGGCCTGGAGAAACGTCACCATATTTCCTCCCCCCTGCCTA
Sequence 4682

Sequence 4684

CCCTTCGAGCGGCCGCCCGGGCAGGTACCATCATCTCATTTGACTCTTGAAATAACCCT CTGAGGTATGCTAGAAGGGCATCCTTATCCCTGTTTTGCAGATGAGCAAACTGAAGTGCA GAAAGTCACACAATGAGTTGGGCGAGAAATTGAGTGTTAAAACTCCTGAATGCTTCTAGT CCAATACTCTCCCCATGATACTAGGTATATAACAAGTGTGGGACAATCATGGTTAACCAA GAGTATCATCTGATTATATTACAGATGCATTGTGAGAGGTTTCTATGTATCCTGAGAATA ATTGGAACCACACTCTTTGGAGTCTCTCCTCCTTGGAATCACGGCTGCTTATATTGTT GGCTACCAGTTTATCCAAACGGATAATTACTATTTCTCTTTTTGGACTGTATGGTGCCTTT TTGGCATCACACCTCATCCAAAGCCTGTTTGCCTTTTTTGGAGCACCGAAAAATGAAA

Sequence 4686

Sequence 4687

CCCTTCGAGCGGCCCCCGGGCAGGTACTTCTTAGATAAAACAGAATACTTGAAGTTACC

TABLE 1A 309/599

Sequence 4690

Sequence 4691

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAGACAATCGATGTCAGACTGTCATATCTT
ATTCTTTGGGGTATGAAGCAAGGTATTTTACAATGCCCAAAAATAACTTTCAAAATAGTA
TTTAGCAAACTGTCTGGAGCCTCTTTCCCCCCAAATTAGAGTATCCAACACAGATGATAC
ACAAGATATAACTGGAAGATTACTGATTTTTTAAATGCCTCCCCAGAATTTACATATTAA
ATCGATTATTTTCTCCTTCATAATAGTTACCTTTTTGACACTTACACATTCACCCCAAGTA
CCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCC

Sequence 4692

TABLE 1A 310/599

TAACAAGCAGCACCGCATCTCCTAGCACCGATAGCCCCTGCTCAACCTTGAATAGCTGTG TCAGCAAGACGGCAGCCCAACAAAAGGTCCCTGGTGAGACCATTAGCAGCCCTAGTTCCA CCCTGGAAAGCAAGGGAC

Sequence 4693

Sequence 4695

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTGAGAATAATCGAGGGGAGAGACCTGGTGGT TAACATGCATTTAGGTAAAATGTCNGGAACAACTTTCTCTTATTAATACTATAAATCCAT CTCAAGCATATTTTAAAATAATGAGAGAGATGGAGGAAACAATCTAGAANATAAAAGAAAAA

GATGTGCATAACTTGTTTTCAGTTTCCCTGTTTATGACAGTTTGTCATTTGGCCGGGTTGGGGGATGGANCANGGAATAAGACATTGAAAAAGCTCATCCC

Sequence 4697

Sequence 4698

TABLE 1A 311/599

CCCTTCGAGCGGCCGCCGGGCAGGTACACTTCACCACAGCAATAGCTTGCCTATTAGT CTGCTGAGCAGTCATGAATTTTATTGTATTCTTGGGTAAGGACAGGCCAGAATGAGTGT CACCAGTGGGTAATTGAATCAACTTCTCACACATACTGAAGGCTTTATATGTCTCATGCA TACTTAGTGTATCATGAATATTTGGTATCTTTGTGGCTTTTCATATTTTTAGTGCTTCAT GAATATTTGGTATCTTTCTATCTGTGGTCACACATACAGCTCTATTAACT TTGCCTAATAAGTCTCCTAGGTTACTAACTTACCTAAATGTAACACAATGAATTCC AGCCTTCTCATTTGTTCTATACCAGAATGGGAAATTTCCCCAAATCAGAAAATCACA Sequence 4703

TABLE 1A 312/599

CNNTTNNAAAAAAAAAANCNNGGGGGGGGGGGGGG

Sequence 4704

NCCCTTAGCGGTGGTCGCGGCCGAGGNACCTTTTCTCTAATAGAAGGTATTATCCTTAAA ACAAACCTNTGCTTATCTTCTATACATTGGTTTACNACAGATGTATAGTATTCTCTCATT TTTGTAAATAATTAAAAATCTGTATAAAAGGATAATTTATAATATGTTNATATGAGGCCA GGTGCAGCGGCTCACANCTGTAATCCCANCACTTTGGTANGCCNANGCGGNTGGATCACG AGGTCAGGAGATCGAAACCATCTTGGCTAACGCAAGTGAAACCCTGTCTCTACTAA Sequence 4705

Sequence 4707

Sequence 4708

Sequence 4709

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAAAGAATTCACACTGGAGAGAAGCCGTA
TGAATGTGAGGACTGTGGGAAAGCCTTCAGTCATCCCACGACCTTTCATAGACATAAAAT
TACCCACACCGCAGAGAAACCTTATGAATGTCAGGAATGTGGGGAAGCCTTCCGTTATCC
TGTTGCTTTTCGTAGACATAAAATTACCCACACTGCAGAGAAACTTTGAGTGTAAGGAAT
GTGGGAAAGCCTTCTGTTATCACAGTTCCCTTCAAAGACATGAAAGGACTCATAACGGAG
AAAAGTTGTGTGGATATAAAAAATGTAAAGCCGGCTGGGTGCGGTAGCTGACGCCTGTAA
TCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGANGTCAAGAGATTGAGACCATCA
TGGCCAACATGGTAAAAACCCCATCTCTACTAAAAAATACAAAAATT

TABLE 1A 313/599

Sequence 4710

Sequence 4711

Sequence 4712

Sequence 4713

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTCTCCTGCTGTCTAGCTAAGCAGCCCAC
ACAGGACAGAAATGGGTAGCACTGAGGAATGATCANATTATTTTTCTATCCCCAATATTT
CTGCCCCCTNCCTAAGCCCTGACCCAACCCTATNTTAATAATCACCGAATGGTTAGTACT
GCATTGCTTTTTATAAAGTACAAAATAAAGATTTATTTTTAAACAAGTGACTTTGGTTTA
TTTTATACATTACACTTTTTNTTGCAGAAAAAAAAAAATTG
Sequence 4715

Sequence 4716

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGAGGATCCGGAGCAGACGCCTCGGGATTT
ATCAGCGATGCTGGTTAGTATTCAAGAAAGCTTCAAGCAAAGGTCCAAAAAGACTGGAGA
AATTTTCTGATGAACGTGCTGCATATTTCAGGTGTTATCATAAGGTTACAGAACTCAATA
ATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCATAGGGATTTATT
TCAATGACCATACCTCCAAGACTTTTGCTTGCGAATCAAATCTTGAGGCTGATGAGTGGT

TABLE 1A 314/599

GCAAAGTACCTNGGCCCGCGACCACGCTAAGGG

Sequence 4717

Sequence 4718

Sequence 4719

Sequence 4721

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCATCTCACAAGTTAGTCCACTCATTG
TAGTCTTGGCTATACTTTATCATCCAAAAATTCATCAACATTCTGGTGAATGGACGGCAT
CTTTTGAGGGTTGATTGTATTCTATGTCATTTAAAGGGATTCAGGAAGAATGCTTTCATG
GGATTCATATGCCATCCTGAATTAGAAGTTTAAGTTTTATTCCTAAAGATTCTCCTCACT
CTGACATTCTCTTAGCCAATAATTCTTTAAAATTTTTCAATCCTGGTCAGGCACGGTGGC
TCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTCACGAGGTCAGGAGA
TTCAGACCATCCTGGCTAACACGGTGAAACCCCGTCTTTACTAAAAATACAAAAAATTAA
CCGGGCATGGGGGGGGGCGCCTGTANTCCCANCTACCTGGGAGGCTGANGCAGGAAATGG
NGNGAATTCAGGAGGCAAACTTGCATGAACCNAAACGNCCCCTGNCCTCCACCTGGGCAC
AGGGCANACTCCTNTCCAAAAAAAAAA

Sequence 4722

Sequence 4723

TABLE 1A 315/599

CCCTTGAGCGGCCGCCCGGGCAGGTACCTTTTTCAGTAATCAATAGACCAGTTAGAACAC
CTCAGCCAAAAATAGCAGAATATAAATTATTTTTTGAGCTCTCACAGAACTTTGCTGAGAT
ACATTATAACCTGGGCCATAAAACAAACCTCAACCAATTAATACAGTTGAAACCAGAGTG
TGCTCTCTGACCACAGTAGAATCAAACTATTAATTAGTAATATAATAATGAAAATCTCCA
CACTCTTAAAAATAAACAACATGCTTTTAAATTATCCATGATTAGGGAAGAAGTCTCAAG
AGGGAAAGAAACATAGAACTGAGTGTAAAGGAAAATNCGACATCAAAATATGTGGAATGN
GGCTAAAGCAGTCCTNAGACGGAAATCTGTTGCACTAAAAACTGAAAGAAAGGATGGNTT
CAAGTNATACCTAAAGGGCTAAACTCAAGAAACTAGATNGGGAAAAAAAGGCNGAATAAAT
GCNAAGTTAGAAGAAGGAA

Sequence 4724

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTCNNTGAANTAGAAAAAGGCCTTTATTTGTA
TCATTTTATGTTAAATACTGGNTAGNTACTGGTATNGATAANATCTGGGCANNANACAAC
TAACCANATATGCATTTTNACANTATATTCANATTNCCCATAANACTTGGCAATGTGTAT
TACCAGTGAAAATCTAAAGTTTCTACTTGGGAAGGAATACCCAATGATGGGTAATCCTTC
ATTCTGAGAACACAGTCAGAATATCTTGGAGCTACCAACATTGTGCTTGGNTCTTAATGC
CAAGTTNTCAAGGGNTGGGGATGNGCTAAAAACACTTTTAANNAATNNATCNGCGANCCA
TTCTTACACGTTTGNTNTTCTTTATTCTTCNTTNGTTCTTTCCTTTNTTNTTTNNTNTNG
CTCTTTAAAAACCCCTCTTTGGAACTAAGGGTAACAAATGATTCCTGGNCATAATTTTAC
CTATTCTTGTCAATACCAGATTTTAAAAATT

Sequence 4725

CAGCNTGCTCGACGGCCGCCAGTGTGATGGATTATCTGCAGAATTCGCCCCTTAGCGTGG
TCGCGGCCGAGGTCGAATTAAAGACCGCAATAAACTTTCTNCCAGAGGAACGCCGGAAGT
TGTTTGAGCAAGAGGTGGCTCAACGGGAGGCTCAGAACAACAGCAACAGATGCAGACCTG
GGAATGACATCACCACTGCCCTATGACTCTCTTTGGTTATAATGCCCCGCATCATCCCTTT
GCTGGTTACCCACCAGGTTATCCCATGCAGGCCTATGTGGATCCCAGCAACCCTAATGCT
GGAAAGGTGCTCCTGCCCACACCCAGCATGGACCCAGTGTGTTCTCCTGCTCCTTATGAT
CATGCTCAGCCCTTGGTGGGACATTCTACAGACCCCTTTCTGCCCCTCCACCAGT
Sequence 4726

Sequence 4727

CCCTTAGCGTGGTCGCGGCCGAGGTACCCGGGATCCTGTGACTTTGNAACCANACTNNTT
CCTTTCNAACACANAGGAGGANTNNTNGCTTCATCTGACTTTATTCAAAANTANTTATGT
ATTGGCCTAAATTATNNGNGCAAANTTTGAAATGNTNTTNATTTAAATATTNGAAATANC
GCAAAGTCATGGAGTTTTTAAAAATTGTTATAATTAAGTAAAANTAAANCTGAATNGTGT
CNAANTNNANAANGNGNANACAATCCCTGAGGATGTGTNGGAGCTCCTAATAGCTTGG
GNNAAGGCTATTAACCGTATTAGCTTTAAATGGGTGGTCCCTGCAACCTCTTGTTTCAAA
GAATTTTCTCCAAAACTTGAAAGNTCATCAGGGTTCCANCTGGGCCTGCATTTTCAANGN
NGNCACTTTTAANCNGAAACNGTTGGG
Sequence 4728

TABLE 1A 316/599

Sequence 4729

CCCTNAGCGNGGTCGCGGCCGANGTACTTCCTNTTTCTTTTCACTTNATCTTTACGGGCA
TATTAATGAGTGGAGTAAAGCACTCANAAGAACAGNAGGAAAAGAGGATTCATGTATGTC
AGAGGAGCTGAAGGCTCTCAATAGGTTCAGAGAATGCAGGTCTTCCAGCTGCTGAGGGTG
TATGCTTCCACTATGCCTCATANGCATCCCCTGAACAAAGTGGGNGTCTCTAAAGTTCTA
TTAACANNACTCAATNNCTAANCACCTNGTAACCAGGAAAAATATTCCCNTNTGGGTCCT
NNTTCCTTTACATTCCATGNAGTCGGAGAAAANGNGAAGGGAATT
Sequence 4730

CCCTTAGCGTGGTCGCGGCCGAGGTACTNNTNTNNNCCTAACCCCTTGGNNAGCCTNNGN NNGANGATNNCTCGNNATCACNAGTNAGNNACCNGNCNNNNCANCANNCGGNGCCNNATG NNNACNAANGNTCNTAAAAATNTCNCNGGGTGNGNGNGGGCNCACGGAGATNTACTAGGA CTTTTACCAGGCTCCAGANGNATGNAGGCCATNTTACCANAGGGTCAGAGGATNCCANAT GGAGGATNTACAACTNTNANTTTCNCTCAGAATGTATGAGGAAACCCTGCCCCTCCTTGA GTGTCAATGGAACCTGGACTTGTACCTGCCCGGGCGGCCGNTCGAAAGGGCGAATTCCAG CACACTGGC

Sequence 4731

CCCTTTCGAGCGGCCGCCCGGGCAGGTCTTGAATGAAGGACTGTGGCTGGATTGGCCTTT
TAGTTTGCCCCCTACATTAGGCCCCAAATTTTCTTACCCTGAGGTGCTGATATCTGTATG
GATGAGTTATTTGTCACTAAAGTTATGAGTTGTGCCTAAAAGTTAAAACTGTTGACTGTA
TTATGTAATGATCAGTATTTCAGTTGGGAAGATATTTTAGAGTCTAGATAATTATGTTTG
TATATTGAAAAAATGGTGGCCAGTTTTTAAGTTCCTTAATAGAAGAAAATTATGTCTCAG
CACATATAACAGTAATGCTAATTTATTGAAACTACTGCTGTTAGAGCACTTCTTATTCAT
TGTCTTTTAGTGAAATTATGGCGTAACACTTTGTCAGAGGAGGAGGCTATATAATTTGGAG
CG

Sequence 4732

TABLE 1A 317/599

Sequence 4735

CGGGCAGGTACCTCACAAGTTCAAATTATTGTTTTTTGGGGAAATGTAAAGGAATATAGT
AATATTGAAGACTGTTTCCAGCAACTTGACTTTGTGAAAAATGATTTCTTCTTTGAACAG
ATTTATAAAACCTTAAACATCCATGTGACGTTGGTTGGCATTGAAATATGGACACATGAA
GATAAAATAGAACTATATTCAAATATAGAAACTACCTTATTGCGTTTTTCATTTTTGGCAA
GAAAAGATCCTTAAAACACGGAAGGATTTTGATCATGTTGTATTACTCAGGTTGGTGATT
GCTCTATTTTCTTGCATACCTTTG

Sequence 4736

Sequence 4737

CCCTTCGAGCGGCCGCCCGGGCAGGTACATAGTCTCCTCAGAAGAACTTTTCAGTTATT
TATATTTACTAAGAATGGCTCTACTTTCACCCCCCAACTCCATTTTAATCCATTCTGAAT
TTAAACCATTGTTAAACTTTATTTTTAAATTATGAATGGTAAAGGAGCATTTCAAAATCA
TCTCAATAAACGATCTTTAAAAACATGAGCTTAACTTCAATTGCTTGACATGCCCTTTGG
CTCCTTTTCTTTGGGTCAAGATCCCGAAGATCTTGTTTCACACCAACACTCTCCATTCAT
ACCTGCAAGTGAAAAGTGCCTCAACTTGACACCTTATACAGGTACCTCGGCCGCACCAC
GCTAAGGGCGAATTCCAAGCACACTGGCCG

Sequence 4738

TABLE 1A 318/599

Sequence 4740

Sequence 4742

Sequence 4743

Sequence 4744

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAAGGATCAATACCCTATGTGAGTTGCAATA
TACACAGAAAGCATAGCAAGGAAAAATTTCCTGGAGTAATTGGTGTCAGTGTCCAGAGCA
GGATTCGTTCAGCCTCCTGAGTTGTCCTCTTCAGCATCCCCCAGGTCCGGGGCTTGTGTC
ATCTGTGGAAGCTGCTTTGTTCAGGGCTGCGGGTACCTGCCCGGGCGCCGCTCGAAAGG
GCGAATTCCAAN

TABLE 1A 319/599

Sequence 4745

Sequence 4746

Sequence 4747

Sequence 4748

CCCTTACCGTGGTCGCGGCCGAGGTACAGCTTGGTCAAATTTCCATGATATGAAGTATTT
GAGTTTTAAAATATACTGTTATTAAAAGGAAAAAGACATGGCCATTATTCCATGTGCTTA
AATGATAATTTCCTTATTCAGTTTCAGAAGAAAAAGAATGAAATNGGGTAACTGTCATTG
CGTTAGCTTTATGTTGAATTGGGAAATTGTGGCATAAAGCTTAAATTCGTGTTTATCAAA
TGTGGACCATAGTAGTATAATGCTGCTTTGTATATAATGTAAGTGCTACAAATAGTCTCA
GCACTGAAAATGTATTGATACCTCTTAAATGAATGCAACTTTTGATAGTGAGGTGTTTTGCT
ATGCCTCANAAACTATCTGTCTGAGAATTTGTTAATCTGTTTGATAATGAAGATCTTCCT
GTTTTCTTGNTTCATATTTTCATGTTCAAA

Sequence 4750

TABLE 1A 320/599

CCNCCCCCNNAAAAAATTTTNAAAAAAAA

Sequence 4751

Sequence 4753

Sequence 4754

Sequence 4755

Sequence 4756

TABLE 1A 321/599

Sequence 4757

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCAGAGGCCTTAGGTGAATGGCTTGTCTGCTA TGGCAGAGATTAGAGGTGCTGCCAGACTGCCATAAGTATTAGGCAGTAACAGCAGCAGCT GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA TCTGCTGGCAGAGGTAGCAGAAGAATGCCCTTAGTGTAAATCCTCTACAACCATACACCA AAATGTGCTCCCTTGCATTTCAAATTTCCATTGTANAAAGTCTCTGATAATCTC Sequence 4760

CCCTTCGAGCGGCCGCCCGGGCAGGTACGTGACCAGGCCCAGCTAATTTTTGTATTTTT
AGTAGAGACAGGGTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGATGA
TCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCAACGCCTAGC
CTCAGAGACTTCTAGTAACATCATATAGTTAGTAAAGGGGACAGCTGGTTTCAAGTAAA
GGTCTGTTTGATTTTTCTATTATAGAAATCCTTTCCCCTTTCTTAATGTCTCTTTTGGTA
TTCTTGAAAAAAACAAAAGAGAGCCAACAAATAAAAGTAATTCCTCAGAATTTATGCTAA
TTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTTGATTTTTAAAATCAAATATTTT
CCTACATTGCTTTTTTAAGGGCAAGGTGTGCCTGTGAGTGTTTCTCACTGTTAGACTAGG
GCAGAAGCTCAACAATAACAAAAAAGGCTGGTGACTAGGAATCCTAATTTCCTTNCAACC
AGGGCGTGTGATAACAAANACACTTTTCCTATA

Sequence 4761

CCCTTTCGAGCGCCCGCCCGGGCAGGTACCTGATGTCCAAAAAAGCACAACAATTTAAGA

TABLE 1A 322/599

CCCTTAGCGTGGTCGCGGCCGAGGTNCAAAAGANAAATTTTAAAGCTGGCCAGTCCGGGGGAGACATCACACGTTGGTAGGATCCATGATGCCCCACAAGCCACCGAAACCAGCANGTTTTTTAGGGATTTCAAAAGGAGAATTGCTTGAACCTGGGAGGCCNAGGTTGCGGTGAAGCTGANATCACCACATTGCACTCCAGCCTGGGCAACANGAGCAAAATGCCATCCANAAAANAACNCAANAAAAAGTTCCTGCCCGGGGCGGGCCGCTTNAAANGGCNGAATTCCAGCNCACTGGCCGGCCGTTACTAAATGNNATCCNANNTTCGGAACCAAGCTTGGGCGTNAATCANGGTCATNGCCTGNTTTCCCTTGTTGNNAANATTTGTTANTCCGGTTAACAANTTNNCACAACAAACCANAACNTAAGGCCGGNAAAGCNTANAANGTGTTAAAAGCCTTGGGG

CCCTTGAGCGCCCCCGGCCAGGTACTTGTGCAGGTATTTCTGGCAGTATAGAAACAGT
AAGTGGACTTGCTGGTCAAATGGTAGCTACATTTAAAAAACAGTGATGGCTACTGCTTAA
TTGTATATCAAAAGAGATTTATACCAGTAACTTTCATACATTTCTGTTTCCTTATTCTCT
CACTTAAATTCAACAACATCATTCCTCCTAACATTTTTGCCAATGGTGAAAAGTATTTCG
TATACAAATTTACATATTCTTACTCATGTGGTTAAGTTTCTTACATGTTTTTTTCCTAATTGTTGAACT
TCCTGTGAATTGCTTATTCATATCTTTTTCTCACTTTTTCCTAATGAGTTTTGGTATTTT
TCTTTAATGAATTTTAAGAATGCTTTATGTATTGGTGCTATTAATCTTCAATTTTTACGTA
TATTTGCATAAGTAATTGCCTACTTTTAACTCTTCGTGGCATACAGACATTTTTACATTT
TATTTACTTAAATTTATCAATCTTTTTCTTTAAAAGTTCTCTGGATTTTTGGGGGTTTATTG
AGGANGGGTANNCCCATCCCAAGAATATATATATGTTTTATAGA
Sequence 4764

Sequence 4767

TABLE 1A 323/599

ATGATGAAAGAAATCAGATGTTTGTTTCAATCAAAGTGAANCAAAATGAGAATAACTAT TTGGGCAAAACACT

Sequence 4768

Sequence 4769

Sequence 4770

Sequence 4772

Sequence 4773

TABLE 1A 324/599

CTTTTGACAGCNTTTTNAAAAAATAA

Sequence 4774

Sequence 4775

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTCCCCTGGAAATTCTAGCTGCTGTGGCCT CCCAACTGCCAGTCCTGTCTCTCAATTCAGCGAGATTTATTGTTTCCCTTCCCTGAAC TGCAACCTAGGAACTGCCGTGCGGGGGCAGGCTGAGAAACCATGGTGCTCACCTCACTCT GTCTGCAGTCTCCTGAGGATCACAAACCTGTGCTTGTCCTATGTCTAAAAACCATTACCT ATTATACGTATTGTATAGCTTCCAGTTGTTTAAGGCAGGAGAGGAAATCTGACCCTTGTT ATTCCATCACAGCAGTAAGGAGAACTCTTCACATCTAAGTAAACACACCTCACACTTACA ATTCACTGCTTTTTGTAATAATTGATGTATAAAGAACACCACTTCCTTACAGAACTATTT CAATAGCATCATGCTTGTCAAATT

Sequence 4776

Sequence 4777

CCCTTAGCGTGGTCGCGGGCCGAGGTACTCNGGGTGAATAATCTTAAGTTAAAACTTGAA ATGGATGCTCAACATATAAAGGNTGANTTTTTTCATGAACGGGGAAGACTTATAGTTTAA AATNAATGGAATCATTACTAGCTAAAGA

Sequence 4779

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAAGAAAATCCTGAAAGTCACCACCTTGGT CTTTATAATCGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAGGGACGAGAAAAAG GCAGAGGCCCATGAGGAAGCCCAAGAAAAAGGGAGAAAAAGGCAGCACTAATAGCTGCCATACAGGCATATAAACCTCTCGATCCCAGGGAGCTTCTC ATTCTATGACCGACTGTTATCAAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCCGAAATC AGAAGCAGCCCCCACGCCCTGTCCAATCTGTAAGGGAGACTACTGGAAGACAAACTGCC TCCAGAAACATACGTCCCAAGGTTCAGAGCCGGCTTCTCAAATGGTCCAACAGGACTGAT GGGTCCCAGGGCTCTCCCCAGCTTCTGACAGCCCAAGCTGCATTACCATCCAAGAAG TCCCGGGTGAGTCTGGAGGTCAAGGGACTCAGAGGACAGACTTCTACTCAACACCCAGAG CAAGCCATTCCTGTTCTTCTTCCATTCTGGGCCCTCCCTTNCTTCCTTTAGCACAACT TGTGAAGGGGCGTNTTAAGGAAAGCCCTNTGCTCCAATATTTTTTCTTAAA Sequence 4780

TABLE 1A 325/599

CCCTTAGCGGCCGCCCGGGCAGGTACTTTATAATTTATATTTTTTCCTATAGAGGCTTTT
CTATTTATGTGTATTCCACTTCCCCATATCACTAAACTGTCTTTTTCCACAGGATTCAAT
TCTTGAACTAGTAGGAGTGAAGGGCAGTCTGTTGAAACCTGTAATCTCTTAGGCTTGTAT
TTTCTTTGAACATAGTTTCCACAGAATTCTTCCCTGTAGGGGAAGGCCTGGGCACTTCTT
GATGTCAGAACATGTTGTCTTTAGTTTGGAATCTGCCAAAACAAAAGTAAATCAAAAATG
TTAATTCCTGTCACCCCAGCACTTCGGGAGGCCCAAAGCAAGGAGGATTGCTTGAGCCCA
GGAGTCCGAGACTGGCCTGGGTAACATAGCGAGACCTCGTNTCTACATTAAAAATTTTAA
AAA

Sequence 4782

Sequence 4783

Sequence 4784

ACCCTAACCTGACAGGAATTAACTACTGTTTTTTTTTTGGGGGCAGAAAGCAAAACCTGGTG
TTGTGACTTTTATCCTAATGGTTCTTAGGCAAGGTTAGTGAGAAGAAACACAAACCCAGA
TGCATGCATTGTGCATTATTTTGTAGACAAGCTACTTTTCTTCTGTCCCTTTAACAAAT
TTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTGAAAGCTAATTTGTGGGTAGATGAGA
TTGCAGAAGAATGGATGTCCATGGCTGTGAACACTGCACACTCCACTCTCCAGTG
CTCACACTGTGCAGCTACCACTCCCTGGCTGCGTGCCATGCTGTCGGGTTGCAGATTTGC
ACACATAAATTCCTCAGGAAGAGTTTGCATGAGCATCACCTCGCAATATTCTGTACC
Sequence 4787

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTGTGTGACTAAACCTTGCTTTGGGAAAATTAGTCTAAAAATCAAGGAGCCGGGTGTGGGAGAAATTAGCTTACTAATTGAACCATCAAGCCAGTTGGCAGTTCTAAGGCTTCTTTATCAGCATATTACAGAGTTTGTATTCCTGTTCTTTTCCTCCTTGTTGTGGGAAACAAGCTATGCAACCATTTGACATTCTGTATTTTAG

TABLE 1A 326/599

ATGTAACAGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTG Sequence 4788

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAACTAGTGCAAACCTGCCCGTCATGGGCC
ATGAGAAGTTCCCCAGCGACTTGGACCTGGACATGTTCAATGGGAGCTTGGAATGTGACA
TGGAGTCCATTATCCGTAGTGAACTCATGGATGCTGATGGGTTTGAACTTTGATT
CCCTCATCTCCACACAGAATGTTGTTGGTTTGAACGTGGGGAACTTCACTGGTGCTAAGC
AGGCCTCATCTCAGAGCTGGGTGCCAGGCTGAAGGATCACTGAGGAAGGGGAAGTGGGCA
AAGCAGGTCAGTGCCCGAATGCTATGGCATAAAAATAACAATATGGGGATGAGGGGGGAT
CTCTGGGGGAGCCTGTCTTCTCTTTACTTTGAACTTTATTCCACACTGAAAACCATGGAG
CAGTGGTGCACATAATATGGCTCCCAGCCAGTTCCATCTCAGGGTTTTACCTGCAAACCA
AATAGGGCTGTCANGTGCCCCCCTTNCCCCGCACAGTTTGCTTGATAGTTCAAAA
Sequence 4789

Sequence 4790

TGGATAGGACTAAAAATCAAAGGACTAATTATATCAGGACATCCCATATTCCCTTCACTG
ATTAAGACAAAACAATGGGGCCCCTTATTTTACTTTGTGGAGCCAAATTAACAAAGCTGA
AATAGAAGTTCTCCTTATAAGAAAGGCTACAAACACTGGAAGGATTAGTCACAGTGAGCA
AAAATCGCCGATGAACCCAAAGTATGCATATGAGCAGGGATTCCATTGGGTATCTATAAG
GCTGGCAAGAGCTTTAGAATTTGGTTCTCAAGGAAATGAGGTGGGTAAGGAATCCCCTCA
AATGTCAATGTATCTTCTTACCATCTCAACAATCCTGGGTACC

Sequence 4791

Sequence 4792

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAGAATTCTGACAAGAAACATCACAAGTTTA TATAAATACCCATTTGCATAGCAGCTTACAAATTCAATAGTTGTCAGAGGCTTGACGCGG TGGGTCATGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGGCAGATCACTTGAGGTC AGGAGTTTGAGATCAGCTTGGCCAACATGGCAAAACTCCGTCTCTACTAAAAATACAAAA ATTACCTGGGTGTGGTGACGGGCGCCTGTAATCCCAGCTACCCCGCGTACCTGCCCGGGC

TABLE 1A 327/599

Sequence 4793

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGGCAAACACTACAACCACAACTCCACACACTGAAATGAGATAATATTTATGTTTTTGCCATAGTGATAGCTCAACTGCCACTTCATCTC
TTTTCCTGTTCTTCCGACGACCCTTCAGTCTGTTTTCAAAAGCTTCTAGTTCAGCCT
GTTGTCTTCGTTTTTCTTCTAAGAGCAGCTTTGGCTTCTGCTTCTTTTATCTCAGATG
CTTTCCGCTTCATTTCCTTGCACGTTGTCACATTCTATTGAAACCTGATTTTCACGTA
CCTCGGCCGCGACCACGCTAAGGG

Sequence 4794

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTCAAACCAAGCTGCAGTTACTCCTTTGA GACACCAAAAAAAGTTGCTTCCATATGGTTACATTGTTAATTCCATAATCGCATTTACAA TATCATTACTGTTGTTCTTCAGGGCTCGGACTGCCTTTGCTCTCGACACATTTGCTTGTG ACATGACCAATTCAATGTCCTTAACTTCTACACCTGTTTCATCGACCTCTTCCTCTTCAC TCTCCTCTTGTACAGTTTAAAAACAAATCTTACACAGCCTTACATTTTCAATTTTTTTCTT TAAAAGGAGTGAGTTGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACA CTGGGCGGCCGTTACTA

Sequence 4795

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGAAACTGAATTCTAGAAAGATTATTTTGGA AAGCCTGTAGTTACGTGTATTACCACTAGATGACCTTCCCTCATTATTGTCTCTAAAGTG GAGCTGCTAGTTATATGGACTTTCTAGAGGACTGTAGGAAATTTATGAATAATCCCTCTA AAGCAACAACGACAACAACAAAAAAAGTCTACTTTATATGGTGTTGAGTGTACCTGCC CGGGCGCCCCTAAAGGG

Sequence 4796

ATTAGGGAGTCGACCCGCGTCCGGTCAAGATGGCAGCTGCCGACGGCGACGATTCGCTC
TACCCCATTGCGTGCTCATAGATGAACTGCGCAATGAGGACGTTCAGCTTCGTCTCAAT
AGTATCAAGAAGCTCTCCACCATTGCCTTGGCCCTTGGGGTTGAACGGACCAGAAGTGAG
CTCCTGCCCTTTCTTACAGATACCATCTATGATGAAGATGAGGTCCTCTTGGCTTTGGCT
GAACAGCTGGGAACCTTCACCACTTTGGTGGGAGGACCCGAGTATGTGCACTGTCTGCTG
CCACCTCTTGAGTCACTGGCCACAGTGGAAGAGACAGTAGTGCGAGACAAGGCGGTAGAA
TCCTTGCGGGCCATCTCTCATGAGCACTCACCTTCCGATCTAGAGGCTCACTTTGTGCCT
CTGGTGAAGCGGCTGGCGGGTGGAGACTGGTTCACCTCCCGTACCTCAGCCTGTGGTCTC
TTCTCAGTTTGCTACCCCCCGAGTATCCAGTGCCGTGAAGGCAGAACTTCGACAGTACTTC
CGGGAACCTGTGCTCAGATGATACCCCCATGGTGCG

Sequence 4797

CCCTTCGAGCGCCCCCGGCCAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATA GCCAGAGAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACCAGGC TTGAAGTGTCTTCTCGGAAAAAACCATCCTTGGAGGCCACAAGTGATGAGAAGGATTCTT TTTCGAATATAACCAGAGAAAAAAAGGATGGAGAAATATCTAGGAAAGTGTCTTCTCAGA AACCACCAGCCTCAAAGACTGCAAGTGACAAGACAGATTCTGCTTTGAATACAGCTACAG AAATAAAGGATGGACTACAATGTGGGACAGTGTCTTCTCAGAAACAACAACACCTTGAAGG CTACAACTGACGAGGAAGGTTCTGTTTCTAATATAGCCACAGAAATAAAGGATGGAGAAA AATCTGGGACAGTGTCTTCTCAGAAAAAACCAGCCTTGAAGGCCACAAGTGATGAGAAAG ATTCTTTTT

Sequence 4798

TABLE 1A 328/599

CCCCCCCTTTTNC

Sequence 4799

Sequence 4800

Sequence 4802

Sequence 4803

Sequence 4804

CCCTTCGAGCGGCCCGGGCAGGTACTTGGACCAAGAAAAAGAAGATGGAAAATATCA CAAGCAAATTAAAATAGAAGAGAATGCAACAGGTTTCAGTTATGAGTCACTTTTTCGCGA ATACCTTAATGAGACAGTTACAGAAGTTTGGATAGAAGATCCTTATATTAGACATACTCA TCAGCTGTATAACTTTCTTCGATTTTGTGAGATGCTTATTAAGAGACCATGTAAAGTAAA AACTATTCACCTTCTCACCTCTCTGGATGAAGGCATTGAGCAAGTGCAGCAAAGTAGAGG CCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCTGTTGGAAGTTCAGTACCT CGGCCGCGACCACGCTAAGGG

Sequence 4805

TABLE 1A 329/599

GAACAGAACAAGGCCCAATAGGTAGAAATTNTAGGAAAGCANAATTCATTCATTATAAGG
AAGGATTTCTAACAATTANAATTTCTAACAATTANAATCATCCAGGGCCTCAGGAGGTGC
GGAAGTTCCTGTCACCTAAGTGCTCAAGCANAGGCCAGGTGTCCATATGCTANAAATGGA
NAAAAGGAAACTCACCAGCAACTTCCCCTCAGCTGGCCCTCCATCACCAATGCGGCAGTC
CTTGCCGTGACATGCTGAGCTTTGGAAGGGAGCCAAGGAGGGGCTNCGGTGTTCAAACAA
NAACCTGGACACANTNCTNCTGACANCCAAGGGGAGGCTTTTAACNCTGGGAGGGGCNA
CANATAAAAGCCAGGACCAAACCCAGGGGGTAAAATGCCCTGGGGATCTGNTTTTTTGGG
AAAGGAAAAAAGATTGGAAATTTTTTACAAGCNGAACCGGGTNTTTTCCAAATTTTTGGG
TGCCCTANCCCAANGGGGGCAAGGTTNGGAAGGGAAAAGGGAAAAAGGTAAAAAATGG
Sequence 4806

Sequence 4807

Sequence 4809

Sequence 4810

TABLE 1A 330/599

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATAGA TGGCAACTCTGTCTACTCCCGAGCCAGTGGCGAGAAGTTCACAGGGAGTCCACCCCGGT GTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGTCAGAAAAATAACTCTT GATGCTGCTGTTTCGGCCCGCGTACCTGCCCGGGCGGCCGAAGGG Sequence 4812

CTGAATTGGGCCCTCTNATNGCTTGCTCGNCGGCCGCCAGTGTGATGGTATATCTGCAGA
ATTCGCCCTTTCGAGCGCCCCCGGGCAGGTACTGGATTCAGGCCCTAAGGCGGGGGAC
AGCACAGTGTTCCCTTCTCCTCCAGAGTTCAGGGAAGACGTCCAGGGCCTCCTGGTCCGA
TATGTCCATCAGGTCCATCTGCTCCAGCATGTCCACGTTCACTTCCATGGATGACATGCT
GCCTATGGGCTCTCGCCGCTCTGCAATCTGCAGGTAGCCAGTGGACAGGTACCTCGGCCG
CGACCACGCTAAGGGCGAATTCCAGCACNTGGGCG

Sequence 4813

Sequence 4814

Sequence 4815

Sequence 4816

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCCCA GTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCCAAAGGTAACTTTTTCCTTTCATT ACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATTGGGTG GGTTTGAATCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATC TCTTTTAGCTCAATTTCCCCATCTGTAAAATAGGAATAATAAAAATACTGACTTCAGAGA GGTTTGTGAGGATCAATTA

TABLE 1A 331/599

Sequence 4817

GCNGGCGCCCGGGCTAGTCACTTGTTCAGTTCTTTCTTNCCTGTTTNTGGCCAGGTGTGC CACCCTAAACANAGGTAAATTTCTTTAGAGGCTAGNCACAAACAGACTTCAAGATTCCTA CGCAGGGAATTTGCCTN

Sequence 4818

Sequence 4820

Sequence 4821

Sequence 4823

TABLE 1A 332/599

Sequence 4825

Sequence 4826

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAAAGAAAAATTTAAAATCAAGATGAGTAAA
AGGAGAATGGTCTCAATATCCTCAAAAATGCAGTAAGAAGAAGTAATTCCCCACTGAAAAT
GTCTCTTTCTTTCTATGTTATACCCTGGAGTCCTGGTTGAGGGGTGGGGGAATCAGAA
AAGTAGGTTTACATTTAACATTTTTCTTAACTACATTCACTTCTTAAAAAGGAACAAGAA
GTGTAAATAAGTATGTATAGAGTGAGGGATTAAGCATATTTGCATTGGGGACTCGTGTAT
TATGCTTTTAAGTCAAAATTAATATTCTCAAATTCGAATTTGATAGCTATTTTCTAAA
TCTTTTTAATCCTCAATTTTCCTGGTAACCTTCTTTCAAGAGTCTCCTTCTTCTAAAAGT
TGCCAAACCCTTTAT

Sequence 4827

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGCCCTTTTCTGTTGGTGCAGCTGC TGGCATTCCCCCCATGCAAGTTTTCAGCTTGCTTATCTATGTTTGTAGCTCAAGTTTTCA GGTCGCTCTTTGTTAGGAAAGAAATTATTTTGGGGCTGCTTTTTGTTAAAAGGGAAATTC TGCCTAAATAATTTTTTCTAACTTNT

Sequence 4828

Sequence 4829

Sequence 4830

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGGTTTTCTTAAAGTGAAAGTCAGCTATAT CTATCAACCTTTGTATTTGAATAGTCCCGCTTTACACTCTAAGAAGGGTCATAAACAGTA ATTTAATATAATTATGACCATGCTAATGTGAATTCTTAGGCTTTACTATATTTACAACAG CACAATTTTGATTCAAAATCAGCTCTTCCAACTGTAATAACTATCTTCAAAAACTGGTTT

TABLE 1A 333/599

CCAGGCCAGGCACAGTGGCTCACGCCAGTAATCCCAGCACTTTAGGAGGCCAAGGCAGGA GGATCACTTGAGGCCACAAATTCAAAACCAGCCTGGGCAACAGAGCAAGATTCCATCTCC ACAAAAACAAGTTTTGAAATTAGTCAGGTATGATGGCATGTACCTGCCCGGGCGGNCGCT CGAAAGGGCG

Sequence 4831

Sequence 4832

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCTGTGGCCTGCTAGGATCCAGGGTGCACA GCAGGAGGTGAATGTAGGATGAGCAAACATTACTGCCTGAGCTCAACTTTCTGTCAGATC AGCAGTGGCATTAGATTCTCATAGGAGCATGAACTTTATTGTGAACTGCACATGCAAGGG ATCTAGGTTTGCACACTCCTTATGAGAATCTAAATGCCTGATGATCTGAACTGGGAACAG TTTTAATCCCCCAACTTCCAGTCCGTGGGAAAAATTGTCTTCCACGAAACTGGGTCCCTG GTGCCCAAAAAGTTAGGGGAC

Sequence 4833

Sequence 4835

TABLE 1A 334/599

AAAGNCCCAGGGGTNTNNGGTTCCCACAGGNCCCCCCNTTNAAAGNGNAATNTCCAACCC TTGAATGCAAGACTTTTTGTTTNTTGGGGGGGGGNATTTTCCAAAATTTTTCCCCNCCTTT

Sequence 4836

Sequence 4837

Sequence 4838

Sequence 4839

Sequence 4840

TABLE 1A 335/599

Sequence 4841 TAGGGAGTCG

Sequence 4842

CCCTTNTAGCGCCCCCGGCCAGGTACTTTNANAGGCTGAGGCAGGTGGATTACTTAA GCTCAGTAGTTCCAGACCAGCCTGGGCAAGATGCCAAAAACTCTGTCTCTACAAAAATTCT AAAAATGTAGGCAGGCATGGTGGTGTGTGTCCTGTAGTCCTGGCTACCCAGGGGGCTGAGG TGGGAGGATTGCTTGAGCCTATGAGTTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGC ACTCCTGCCTGTGTGACAGAGTGACCCCTTAAAAGANAAAAAAAGGCTTTTTNTGGTGCA NANCNATTTTAGGGNAAATNTTCTTCCNATGGNGNGGAGTTTTTNANGGGGCCTNCTGGG ACTAACCCATNTTTNCGNTGAAATNGAATTCCTTAAGTTCTTGAAAAAATNCTNTTTTNA ATAAACTTGCTCTTGGGTTTCNTGGGACAANAATNAACTNCAATTCNTTTTTTGTTAAAN AAAAAAAAAAATTTTTGTTCNTGGCTTTTGGCAATAATTCAAAAAAAACCTTNTTGGGATA ACCCCTTGATCAAACACCCGGGTTTCNAAAATTTTTTTCCTGGAATCGGGNGGNCCATTT TGAACATTAANTCCTTGACCTTNNCCNAAAAAATTTCCAAAANCCAAGGCCCTTNAAAAAA AATNAAATTCCAAAACCCCCTTCCCNNCCAAAANTNCNCTTTTGGGCCGGGNAANCCCNNCTTT TAAGGGCNAATTTTCNNCCCNNCTTGGGGGGGGGGNTTNTTNCAGGGGAANCCCANNCTTG GGGNCCCNNNCNTTNGGGGAAAAG

Sequence 4843

Sequence 4844

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGCCATCATCTATAACATCCTGCTCTTTGGGCTGACCAGTGCCCTGGGTCAGAGCTTCATCTTTATGACGGTTGTGTATTTTGGTCCCCT

TABLE 1A 336/599

Sequence 4848

TABLE 1A 337/599

GAAGAACCTGGGTT

Sequence 4852

Sequence 4853

Sequence 4855

NCCTTACGTGGTCNGGCCGAGGTCAGTNCCTAAAATGTCCTTCTNCAAACAGTAAAATAT TTCACTCTGTAAATCATCACTAAGTAGTTATTCTGCCTGTTGATTATGAGCCTCCAAAAA TGTTTAATGCTTGAAGGATGGTTTGGGAGGCAGGGAATCCTTTTCTTAAAACACCTTTAA TGAGGCATATGTTACATATCATAAACACCCATTTCAAGTGTCCCTGCCCGGGCGGCCGCT CGAAAGGGCGAATTCCAGCCACTGGCCGGCNGTTCTAGTGGATCCGACCTCGGTCCAACC TTGGCGTATCATGGTCAT

Sequence 4857

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGGGATTAAGTTTCCAACACATGCTTTTT GTGAAACATGTTCAAACCATAGCATTTTCAAATTCCAAAATAAGATATCCCTTACAATAA GTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCAGGGCA GGANGATTGCTTGAGCCCAAGAGTTTGAGACCAACCTGGGCAACATAGT Sequence 4858

TABLE 1A 338/599

Sequence 4859

Sequence 4860

ACTGTTTTGAAGAACAAAGGGCTCAACCCTGATAACTCTAAAATTTGGGATCTTGTCAAA
TTAANTTTCAACATTCTTTAAATTTTACCCTNATCCTTGTTTTCTTCGCTTGGACTNACG
NCCTTTCTGACTCTNTTCCGCTTTTGGGTTGGTCTTCTAACAGTAAGGNATGCTTGTAGG
TGTGGCTGGTTNTGATCCACACAGTGGAAGGAAGGTCCTCATCCCAGCTTCTGGGTGC
CTGTATCCCCACCTGATATGTTGCCTGCTTNCGCCGATGAAGTCTAATAACCTTCCCCCT
GCNATTCCCCTAAAGAGGGAAAATAAACTT

Sequence 4862

Sequence 4863

Sequence 4864

TABLE 1A 339/599

Sequence 4866

Sequence 4868

Sequence 4869

TABLE 1A 340/599

Sequence 4870

CCCTTCGAGCGGCCGGCCGGGCAGGTACTGTTTGATCCCCTCGCTCTTTTAAATAATTT
CGCATAGCTTCCCTAGTAAGTCGTTTAGGTGGAGGCCGCTCGCCAAATTTCCTTTTAATC
CACGCCATGGTACGCGGGTCGGAAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTT
TGGGCTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGC
TGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTTAACTTTGGAGAACTCCTCATGCACC
CTGTGCTGGAGTCCCTGAGGAATACTG

Sequence 4871

Sequence 4872

Sequence 4874

CCCTTCGAGCGGCCGCCCGGGCAGGTGTTAAGTTTGTGAAAAGTGATGCAATTTGTTAT
ACATTCAAATGCAAATTAGAACTAGCTGCCTTACGATGAGATTTCACTGTCATTTTTTTA
GCACCCTAATTTTTGTCGGTTCTGTAGGTTTCAAGTAGCAGAAACTTACATCTATTTCCT
TCAGAAAATTAAGGAGCAGATATTTTAATATGCTTTATGTAAATAGGATTCTGATAATTT
TAGCTTTAGTTAATGCAACACACTTNCCTGGGCACAACCATGACCTCTCTGAGAACTGGA
AAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCCTGACAACTTCAAATAAG
TTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTGTCTAGCCGTA
GAAACAGTGACAACTTAAA

Sequence 4875

CCCTTAGCGTGGTCGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG

TABLE 1A 341/599

ACATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTTGTCTTGTTGTCGCAAGT
AAATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTCATATCAGTGGGATGTTGTG
TCCTGTTTTTGTTTCCATTATCCAATAAATGCAAAATTTCTTCTGAGGATTTGGGCTGGT
GTAAAGTAAGTCCATGAACGACCACCCCTTTTTGGGTATCTTCCCGGACAGCAAGTGGCC
CTGAATTTACTAAGAGATCACAAATCTGTTCATTATATACCTCCAGATATGAAACTGCAG
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4876

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAATCAGGAATGGCCATATTAGTGTCA GATAAAGAAGACTTTAGAGCAAAGAAAATTACCAGAGACAGAGAGGGCTGTTACATTGTA ATAAAAGTGTCAAACAACCGAGAAGACAACAATCCTAAATGTGTATGCAGAAAATAACAC AGCTGCCAAAATACATGAAGGAAAAACTGTCATAACTAAAAGGAAAAAGACAAATCTACA ATTACAGTTGCAGACTTCAGCACGCCTCCCTCTCTTACTGATAGGTAGAACAACTAGACA GAAATAGCAAAGAGGTAGAACT

Sequence 4877

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTCACATAGCTTGTTGCCCCGTAAAAGGGT
TAACAGCACAATTTTTTAAAAATAAATTAAGAGGTATTTATAGGATTAAAGTGACTTCAT
TTGTATACATTTGGAATCTAAACCAGCTTAAAAACAGTTTCCTCAATGACTTAGATACAC
AGTATAACTGATGCTCTTCTGGAATACCACATGAGACATGGTCAGAAACAGTGCTTGGAA
GGACATTACACAAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCCTTTTGTTTTATTC
CTGAAGGAACATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 4880

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATTACTTCAAGATATGTGTAGGCAAATATG
CTAANCTTNTACAGTTTAGAGGGTTTTACAAAACTGAAAAGTGAAATTGAGGGTCACATG
AACCTGCCATGAANTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTACTA
GAGTATTTGTAAACTAAAATGTTATATAGAAAATAACCNCNTATTNGGTCATTTACTCNA
ACATTTATCAAGTGCCTATTTTGNGCCAAACATAGCAAATAGGGGCTGTGAATAAAGAGG
ATGAAAACGTGCCCTTATCCTTAAAGAACTCTNATAAGAATCTTATTAAACNAACCCGAA
GCNGAGTTNNCCTTCCCCCCTTTATGTNAACTAACCNTTATTTCCCGGGAATACCTTTCN
AAATTCCTGAACTTTTTACCCAAACCNATTTGACAGAAGTCCCNCGTTTATAAAACCTTCT

WO 01/070979

TABLE 1A 342/599

TTNGGAAAATATTTGGTAAAAGGGCCCNTCTANACNAAATNTGCCAGGGGNAAAAAATT Sequence 4881

Sequence 4882

Sequence 4883

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACTTTGGAAT CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAAATCAGAAGAAAG GTAAAAGCAAGTGGCCACATGATCGCATTAAAAAAAGAAAAAGGCAAATATCTCAGTAAGT ACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4884

Sequence 4886

GANAAAGGGTTTTACTATGGAGCCAGGCTGGCCTTGAACTCACAGCAGTCCTNTAGCTCC AGCCTCTTGAATGCTGGGATTACAGGNGNGAGCCACCATGCTGGGCTGTCTTGGAATGN CTCCTTGAACAANANGNGCAAGGATGTGTCTGAAANAAAGACAGTCTGAGNGGGCTCTGC TGTACATCAAGCAAAACACCCAACCCCTTGCTTAACGCCATGANACCTNGGCTCACCCTGT CCAGGTCCCAGGGACCCAA

Sequence 4887

TABLE 1A 343/599

CCATCTCTGGCAAAGAATGACCCAAGGGACGAGGAAG Sequence 4888

CCCTTAGCGTGGTCGCGGCCGAGGTACTNCTTCTGTNGACATGGGGGTCTNATTATGTTG
NCCANGNTGGNCTTGAACTACTGGGCTCAANCAATTTACCCGCCGNCATGGTCTCCCAAA
GTGCTCANATTATAGGCATGACCACTGTGCCTGGCCAACATNAAACCATGTGTTATATAC
ACAAGAAGCCTGAGAGAGGAAAGAAGGGTANGCGCCCTGCNCATGCCGATGAAGC
Sequence 4890

Sequence 4891

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCTAAGCTATATATTGAGCACATCCAGT
TATATTTAAGGTGGTTCTGTTAGTCCAATTTCATACTGATATAAAAGAACTGCCTGAGACT
GGGTAATTTCAAAAAGAAAGAAGGGTTTAATTGACTCACAGTGCAGCATGACTGGGGAGGCC
TCAGGAAACTTACAATCATGGTGCAAGGCAAAGGGGAAGCAAGGCACCTTCTTCAAAAGG
TGGCAGAAAGGAGAAAGAGCTGAGCAAAGGGGGAAGAACACTATAAAACCATGAGATCT
CAATCATTGTGCAAAAATCACAAGCATTCTTATACACCAATAACAGACAAACATAGAGCC
AAGAGTGAACTCCCATTCACAATTGCTTCAAAGAGAAATAAAATACCTAGGAATCCAACTT
ACAAGGGACATGAAGGACCTCTTCAAGGAGAACCACAAACCACTGCTCAATGAAATAAAA
GAGGATCAAACAAATGGAAGAACATTCCATGCTCATGG
Sequence 4892

CCCTTAGCGTGGTCGCGGCCGAGGTACCACACTGGGTTTAGCAATTCGGGTAGGCACAG CAGGTCCGGCTTGGCCTGCTTTGACTGCCTTTTCGGGAGTTTTAAACCTCCTACA CTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGACTTAAGCGGAATA AGTATCGGCTTATTTCGCCTGCGATAAAGATGCTTAATTCTGCGTTCGAAATATTCTGAG CGAGTCCTGGGTTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGATTTTAAGTGCCCC TGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACCAGTACCTGCCCG GGCGGCCGCTCGAAAGGG

Sequence 4893

CCCTTANCGNGGNCNCGGCCGACGTNCANTTAATATGATTCANTATAATCTGCAGTCTCA
TGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAACCTCACTGCTTACTAG
AAATGCTAAACACTGGAAAAAATGGAATTTTATACATTTGTTTTCTTAAATTTTGACAGA
TATTCTTCAGAAAAGTTAAAACTGCCTTCCACAAAATTTTGTGTGTATATGGCACAAGGTG
ACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTTAACAATACTCAAGAATAATCTG
ACAAGTNTACATCAATGTCTGAGTAAAGAATAGGTAAATAGACAAACCCCTATAAAAGAT
AGTATTATNGNTTAAATATACTATTGCTNTATAAAAAGAANGTAACACACAGGAAATGAC
CCTTTTTATGACAAGCCTATANACCCCNTTGAAATCACATTATTAGNTCTTGTAACCACA
AAAAAATGANAAAAAAAATTT

TABLE 1A 344/599

Sequence 4894

Sequence 4895

Sequence 4896

Sequence 4897

CCCTTAGCGTGGTCGCGGCCCGNTNTACCAGAATCGGCAGAAGAATCAGCCCCATAAATT
TTAAAGACTTCCTCAATCGGGATACTGTTCATTAAGATTCCAGCATAAGATGATAAAATC
ATAGCTTCTCGTTCTCTACGATTTGGATATATGGGTCTGCCATGGAGTGGTATTTTCAGT
TCCTCCCACTCCAGCCAAGTTAAGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTG
ATGGCCAAATCATAAGTGTGCCATATCATCTAGAAAGGTGAGTTGCCGTCTTCCTTTTGG
GTCAAATTTCAATTTTCCCCGAAGCTGATGCCAATATAATCTCCCAAGAGCTTTTTCATT
TCCTTCTTTATGAGCCTTCTTTCCATGTTAAAGGGCTTAGCCAGCTTGAGCAAGGTATTN
TGCAGTTTACACTAACACTTAGACCCAGCTTTTTNNTCCCCGCGGTACCTGCCCCGGGCG
GGCCNNTTCGAAAAGGNCAAAATTNNACCCCNCNTTGGGGGCAGGTTCTTAGGNGNAATC
CANGNTTNGGTANCAAANTTTGGGNAANAAAGGGGCCAATGNTGGGTTNCCGGGGGGAAN
ATNNNNNANNATTNNNAAAAAATTTC

Sequence 4898

CCCTTANCGTNGNCNCGGCCGACGTACNCNAAATACTTCATACTAAACTTTCTAGAGAAT TAAACTTTAATGATGGGCTCAAANNANANAAACCNGCCNACTAATTTGTTCCTGCCCGG GCGGCCGCTNAAAAGGGCGAATTCC

Sequence 4899

TABLE 1A 345/599

Sequence 4902

Sequence 4903

Sequence 4904

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTCAAGTGAAAACATCAATAATAAGAAAGCA AAAAAGCTTCTTCCTGATATGAAGAAAGTTTGGGTGGTCTGGATAGAAAAATAAAACCAGC CACACATTCTCTTAAGCCAAAGTCCAAAGCAGAACAAGGACCTCTCTTCAATTCTCTGAA GGCTGAGAGAAGTGAAGAAACTGCAGAAGAAAAGTTGGAAACCAGTAGAGGCTGGTTCAT AAGCATTAAGATAGAAGCCTTCTTCATATGAAAAACTACAAGATGAAGCAGCAAGAGCCTA ATGTAGAAGCTGCGGCAAGTTATGCAGAAGATCAGGTTAAGATCATTTAAAGAAGGAGGC TACACTAAACAAGAG

TABLE 1A 346/599

Sequence 4906

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAAGGACTTACTGGAAAATTCCATG CTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGGACC GTTGGTGTGCAGAGGTACCTGCCCGGGCGGCCGCTCGAAAGGG Sequence 4907

Sequence 4908

Sequence 4910

CCCTTAGCGGCCGCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG GTGGTGTTTACATTTCCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG CTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC GAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGA CAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACGCTAAGGG Sequence 4911

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTAAGAGACTATGGAAGAATTTCAGGGTAGC TGGGATGTCTTTTACATAATACAGCATCTAGAAAGGAGGAAAAAGAGAAATGAGCTGCTT CTGTATGTTGAAGTCTTTATTGCTTGGGCTAGATACTCCTAGAAAGTTTGATTTTCTAGT TGAGTGAATTTTACCCAANAAAACACTTAAGAAATTTAAAGATTAAAGACGTTGCATGAA GACATAGAACAATAATGTGAGAAAATATTTGGGGA

Sequence 4912

GGAGTCGACCCGCGTCCGGCGCTGAGCAGGATTTAACCCGCCACCATGTCGAGCAAA
AGAGCGAAGACCAAGACCACCAAGAAGCGCCCTCAGCGCGCAACGTCCAACGTGTTCGCC
ATGTTTGACCAGTCCCAGATCCAGGAGTTCAAAGAGGCCTTCAACATGATCGACCAGAAC
CGGGACGGCTTCATCGACAAGGAGGACCTGCACGATATGCTGGCTTCAATGGGAAAAAAT
CCAACTGATGAATACCTGGACGCCATGATGAATGAGGCCCCGGGCCCCATCAATTTCACC
ATGTTCCTCACCATGTTTGGAGAAAAGCTGAACGGCACCGACCCTGAGGACGTCATCAGA

TABLE 1A 347/599

AATGCCTTCGCTTGCTTCGATGAGGAAGCAATCGGCACCATCCAGGAGGATTACCTGAGG
GAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGATGAGCTGTACAGG
GAGCCCCCATTCGACAAAAAGGGGAATTTCAACTTACATCGAGTTTCACGCGCATCCTT
AAGCACGGGGCGAAAGACAAAGATGACTGAAGAGCTGTGGCTTNCAAGCCAAATGTCCCT
GTTGCCATTGGGTATTTTCTGAGATTTTNCTNCTGGAGCCGGTCGCATTGCCCTTGCTT
TTTCTGGCTTTTGCTTTCCTTGGTTTGGATTTATTCTCAAGCCCCCTTTTTGGGGCCCCGT
TGTACCTTTTTATNATTCANACTTGGGAAACGGGGACNTTTNTTGTTCATTTGGTTCGAT
GAGAACGTTAAGGGNAATTTTACTTTACAGACAGGNTTTGTNCCNTTGTAANAACCTGNA
GCCCCCAGNAGTNANTTNTNTTTTTTTTTAGNAAAAAAGTTNTCCCCTTCAATTTTTTTNT
T

Sequence 4913

TCAACAGGAAGTAATTGCCTGAGCTNTTTAAAGCAACTGANTTGAATGTCAGGAAACTGG AGNCCTAATCCAGGCCCTTTTTTGACTGACTGAGTTGGGATAAGACTTTTTACCTNTAGG ATCATCAGGNGCAAAATGAAAAAGGTTGAAAAAA

Sequence 4917

Sequence 4918

TABLE 1A 348/599

CCCTTTGGCCGCCCGGGCAGGTACAGGCCAACATGATCAAAGGCATGCTGGAAACAAGCG
TATTAAAGATCAGCTTGGATCAAGCTTTCATTTGCATCTGCCTGAACCGCACATATTTNA
GTCTGAAGGGAAAATTGGTAATCAAGTTGAGAAGTCTATCAACAATGCTTCCTCAGTTTC
AACATCCCAAANAATTTGTTGTAGGCCCAAAACCCATATTTCTAATAAGTATGGAAATAA
TTCCCTCCATTCTTCATTACTCACACAAAAATGGGAAGTACCTCGGCCGCGACCACGCTA
AGGG

Sequence 4919

Sequence 4920

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAAGGGGCACCATTTCAAGAGCACTAG
GACTACATTAAACTTAAATATTCCCACATTCTTAAAAATGTAACTCAAAACCAAATCT
AGTCTTAAAGAAGCTCCAATAACTAAAACTACATTAACAGGCACGATGAACAGTGTAAAC
ACTGTTAATGGGCACCAAGTTTAACAGGGCAGACAATATTTGCTTCTGCATTCACACTTA
TTCAATTACATTTTTTAAAAAAAATGATGCTGCTTAAACTATTAATGTTTTACCAAAAAAA
TAATAATTTTAATAAATACAGCAAATGCTAGAAATCTGGCTAGGTTATCATGCAAGGTAT
AACCAAGACAAACTCAAATTTATAATAAAGGCAACTTGCATTCAAAATGAACTCTACCCT
TATATTTTATTAAAAAGGGCAAACATCATGAATTAACCCAGCCGCTTACTTGAATTACAAA
AGTAACATGATTCAATATGAAAATAAGAAACTGTCTACAAATCTCTGACAGTAATAAATT
GCAATATACAATGCATACAGGAGTCATACAGAGCAACAACTCTCGTACCTGCCCGGGCG
Sequence 4922

CCCTTCNAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCATANGCTGGCGGATCGCTTGA GTTCATAAGTTGGGGAACAGCGTGGGCAACATGGCGGAAATCCCGTCTCTACAAAAAAA NAAAAAAAAAAANNNAAATTNCCCCCNNGGGGGCCCCCNCTTTTTTNGNCCCAATTTTTT GGGGCANNGAGGGANNNNNNTTNNCTAANCCCGGGNGTNGCTGGGGNAGTANACATAAAA ACTCCCNNNANCNCCCNNGTTGNNTAAAAATAGGAANATTTNGNNCTATATTNAAAATAC ATANA

Sequence 4923

Sequence 4924

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT AGTCGTCTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGAGTG GTTGGCCAAGTGCTGCCTAATAATTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA

ç.

TABLE 1A 349/599

GCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCTAGTGTGCCCATT AACAGGTCTTCCAAAGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence 4925

Sequence 4926

CGCGGCCNAGGTACCGTAAAAGAAGAAGAATGCCTAAAGAAACAGACATAGAAATCATC CCAGAAATCCCTGGAAACTCTAGAGCCACTGTCCCTTCCANATGTGCTGAGGATCTNGNC AGTTCTGGAGGACACCACANACCANCTCTCTATTCTGAACTACATNATGCCCGTTCAGTA CCTGCCCNGGCGGCCGNTCNAAAGGGCGA

Sequence 4927

TABLE 1A 350/599

CATGAGCCTGGTTGAGACATGGTTATTTCATCGCAATATCTTGGGGAACCCATGAATGCT CTGAAATGCCTTTGGTTTANAAATGGATGAAGGAGGCCATGGAAATATTTANACCTTT TGGAGAGATCGAAAGGACAGGTGATTTATCTCCAAGTTCACCTCGAGGCATGACTTGGGC TGTC

Sequence 4931

CCCTTTCGAGCGCCCCGGGCAGGTACTTGCAGTTACTGCAGATGCTCCCAGGAAAGC CACCATCATTAGTCTTCGCCGGATCTGGATGGGCTGTGGTCCTCCATAGTACCTCGGCCG CGACCACGCTAAGGG

Sequence 4933

Sequence 4934

Sequence 4935

Sequence 4936

Sequence 4937

TABLE 1A 351/599

Sequence 4938

Sequence 4940

Sequence 4941

CCCTTCGAGCGGCCGCCGGGCAGGTACTTGGAGCTAAATTAGTCCCCAAACCAAATTC
ATTATTTTCTTCTTAAAAATGTCTTTTACTTCCTTGAATCTGCTTCTGTATTTCCCATGT
AAATTTACAATGTATTTTGTCCAGTTACTGAGATAAATACCTCTACTTTTGCACCTAGAC
ATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTGTCTTCTAAAAGAACTAAAATCT
AGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTCATTTTCCATACCTGGAGTTATGAT
AGTAGATTTTTAACGAGCTTTTCCCGTCTCTGTCTTCTACCTAGATCCAGTATACTTCTG
CAGGCTGGTATGTTTTTCCCCCTAA

Sequence 4942

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAACCTCTGC

TABLE 1A 321/599

Sequence 4757

Sequence 4759

CCCTTAGCGTGGTCGGGCCGAGGTACAGCAGAGGCCTTAGGTGAATGGCTTGTCTGCTA
TGGCAGAGATTAGAGGTGCCCAGACTGCCATAAGTATTAGGCAGTAACAGCAGCAGCT
GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA
TCTGCTGGCAGAGGTAGCAGAAGAATGCCCTTAGTGTAAATCCTCTACAACCATACACCA
AAATGTGCTCCCTTGCATTTCAAATTTCCATTGTANAAAGTCTCTGATAATCTC
Sequence 4760

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGACCAGGCCCAGCTAATTTTTGTATTTTT
AGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGATGA
TCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCAACGCCTAGC
CTCAGAGACTTCTAGTAACATCATATAGTTAGTAAAGGGGACAGCTGGTTTTCAAGTAAA
GGTCTGTTTGATTTTTTCTATTATAGAAATCCTTTCCCCTTTCTTAATGTCTCTTTTGGTA
TTCTTGAAAAAAACAAAAGAGAGCCAACAAATAAAAGTAATTCCTCAGAATTTATGCTAA
TTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTTGATTTTTAAAATCAAATATTTT
CCTACATTGCTTTTTAAGGGCAAGGTGTGTCCTGTGAGTGTTCTCACTGTTAGACTAGG
GCAGAAGCTCAACAATAACAAAAAAAGGCTGGTGACTAGGAATCCTAATTTCCTTNCAACC
AGGGCGTGTGATAACAAAAAACACTTTTCCTATA

Sequence 4761

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGATGTCCAAAAAAGCACAACTTTAAGA

TABLE 1A 322/599

CCCTTAGCGTGGTCGCGGCCGAGGTNCAAAAGANAAATTTTAAAGCTGGCAGTCCGGGGGAGACCACCACACCGTTGGTAGGATCCATGATGCCCCACAAGCCACCGAAACCAGCANGTTTTTTAGGGATTTCAAAAGGAGAATTGCTTGAACCTGGGAGGCCNAGGTTGCGGTGAAGCTGANATCACCACATTGCACTCCAGCCTGGGCAACANGAGCAAAATGCCATCCANAAAANAACNCAANAAAAAGTTCCTGCCCGGGGCGGCCGCTTNAAANGGCNGAATTCCAGCNCACTGGCCGGCCGTTACTAAATGNNATCCNANNTTCGGAACCAAGCTTGGGCGTNAATCANGGTCATNGCCTGNTTTCCCTTGTTGNNAANATTTGTTANTCCGGTTAACAANTTNNCACAACAAACCANAACNTAAGGCCGGNAAAGCNTANAANGTGTTAAAAGCCTTGGGG

CCCTTGAGCGGCCGCCCGGGCAGGTACTTGTGCAGGTATTTCTGGCAGTATAGAAACAGT
AAGTGGACTTGCTGGTCAAATGGTAGCTACATTTAAAAAACAGTGATGGCTACTGCTTAA
TTGTATATCAAAAGAGATTTATACCAGTAACTTTCATACATTTCTGTTTCCTTATTCTCT
CACTTAAATTCAACAACATCATTCCTCTTAACATTTTTGCCAATGGTGAAAAGTATTCG
TATACAAATTTACATATTCTTACTCATGTGGTTAAGTTTCTTACATGTATTTTGTTGAACT
TCCTGTGAATTGCTTATTCATATCTTTTTCCCACTTTTTCCTAATGAGTTTTGGTATTTT
TCTTTAATGAATTTTAAGAATGCTTTATGTATTGGTGCTATTAATCTTCAATTTTACGTA
TATTTGCATAAGTAATTGCCTACTTTTAACTCTTCGTGGCATACAGACATTTTTACATTT
TATTTACTTAAATTTATCAATCTTTTTCTTTAAAAGTTCTCTGGATTTTTGGGGGTTTATTG
AGGANGGGTANNCCCATCCCAAGAATATATATATGTTTTATAGA
Sequence 4764

Sequence 4767

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTTGANAGAGGGTCCAGTAAATCTTTGTTT
TGAATGAACTGATGGTTTTGAAGCAGGTGACCTGGAGGACTGCATGTAGAACACAGTGAT
GTCAAGGAGTAAAGGANAGAACAGAAGTGAGATTAGCACTAATCACCTCTAATGCCTTAT
TTCCAGTAAAGTTTAGAGAAGAGGAAAAGCTACTTGGCTTGCTCCTTTGAAGGTTTTTTTCTT
CCCTCTTAACACAGAAATTAAAAGGTAGAGAGAGAGATGCTGAATGATGCTTTTTTTCTT
CTTAATCTTGGGGGGGTCATTATGATTAAGTTATTGAATCCATATCACCGTATGACAGCAC

TABLE 1A 323/599

ATGATGAAAGAAATCAGATGTTTGTTTCAATCAAAGTGAANCAAAATGAGAATAACTAT

Sequence 4768

Sequence 4769

Sequence 4770

Sequence 4772

Sequence 4773

TABLE 1A 324/599

CTTTTGACAGCNTTTTNAAAAAATAA

Sequence 4774

Sequence 4775

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTCCCCTGGAAATTCTAGCTGCTGTGGCCT CCCCAACTGCCAGTCCTGTCTCTCAATTCAGCGAGATTTATTGTTTCCCTTCCCTGAAC TGCAACCTAGGAACTGCCGTGCGGGGGCAGGCTGAGAAACCATGGTGCTCACCTCA GTCTGCAGTCTCCTGAGGATCACAAACCTGTGCTTGTCCTATGTCTAAAAACCATTACCT ATTATACGTATTGTATAGCTTCCAGTTGTTTAAGGCAGGAGAGGAAATCTGACCCTTGTT ATTCCATCACAGCAGTAAGGAGAACTCTTCACATCTAAGTAAACACACCTCACACTTACA ATTCACTGCTTTTTGTAATAATTGATGTATAAAGAACACCACTTCCTTACAGAACTATTT CAATAGCATCATGCTTGTCAAATT

Sequence 4776

Sequence 4777

NGGGCGAGGAGGCCGAGNAANNAAAATNTNTTTTNTCTGACCNTGAAGCC ATCAATAAAAGAGTAAAAGACACTATGGCNCNATCAGAAGATTTGGACAATTC Sequence 4778

CCCTTAGCGTGGTCGCGGGCCGAGGTACTCNGGGTGAATAATCTTAAGTTAAAACTTGAA ATGGATGCTCAACATATAAAGGNTGANTTTTTTCATGAACGGGGAAGACTTATAGTTTAA AATNAATGGAATCATTACTAGCTAAAGA

Sequence 4779

ACTITITITITITITITITITITITANTITAAAAAANGGGNAAAANGGGTTTTTTT
TNNNNNTTAAAAANTTTTNNCCCNGNAAANTTTAANCCCNNCCCCCAANAAAAANTTTT

TABLE 1A 325/599

CCCTTAGCGGCCGCCCGGGCAGGTACTTTATAATTTATATTTTTTCCTATAGAGGCTTTT
CTATTTATGTGTATTCCACTTCCCCATATCACTAAACTGTCTTTTTCCACAGGATTCAAT
TCTTGAACTAGTAGGAGTGAAGGGCAGTCTGTTGAAACCTGTAATCTCTTAGGCTTGTAT
TTTCTTTGAACATAGTTTCCACAGAATTCTTCCCTGTAGGGGAAGGCCTGGGCACTTCTT
GATGTCAGAACATGTTGTCTTTAGTTTGGAATCTGCCAAAACAAAAGTAAATCAAAAATG
TTAATTCCTGTCACCCCAGCACTTCGGGAGGCCCAAAGCAAGGAGGATTGCTTGAGCCCA
GGAGTCCGAGACTGGCCTGGGTAACATAGCGAGACCTCGTNTCTACATTAAAAATTTTAA
AAA

Sequence 4782

Sequence 4783

Sequence 4784

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCAGAGACACAGACTGAAAACCAGGAAGTTGG ATGGGACTTAGAGCCCTTGATCAACCCAGAACGCCATGACCGCAGGCTGAATCACTTCAG GGTCTGCAGTGACATCACTCTGTACCTCGGCCGCGACCACGCTAAGGG Sequence 4785

Sequence 4786

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTGTGTGACTAAACCTTGCTTTGGGAAAATTAGCTAAAAATCAAGGAGCCGGGTGTGGGAGAAATTAGCTTACTAATTGAACCATCAAGCCAGTTGGCAGTTCTAAGGCTTCTTTATCAGCATATTACAGAGTTTGTATTCCTGTTCTTTCCTCCTTGTTGTGGGAAACAAGCTATGCAACCATTTGACATTCTGTATTTTAG

TABLE 1A 326/599

ATGTAACAGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTG
Sequence 4788

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAACTAGTGCAAACCTGCCCGTCATGGGCC
ATGAGAAGTTCCCCAGCGACTTGGACCTGGACATGTTCAATGGGAGCTTGGAATGTGACA
TGGAGTCCATTATCCGTAGTGAACTCATGGATGCTGATGGGTTGGATTTTAACTTTGATT
CCCTCATCTCCACACAGAATGTTGTTGGTTTGAACGTGGGGAACTTCACTGGTGCTAAGC
AGGCCTCATCTCAGAGCTGGGTGCCAGGCTGAAGGATCACTGAGGAAGGGGAAGTGGGCA
AAGCAGGTCAGTGCCCGAATGCTATGGCATAAAAATAACAATATGGGGATGAGGGGGGAT
CTCTGGGGGAGCCTGTCTTCTCTTTACTTTGAACTTTATTCCACACTGAAAACCATGGAG
CAGTGGTGCACATAATATGGCTCCCAGCCAGTTCCATCTCAGGGTTTTACCTGCAAACCA
AATAGGGCTGTCANGTGCCCCCCTTNCCCCGCACAGTTTGCTTGATAGTTCAAAA

Sequence 4790

TGGATAGGACTAAAAATCAAAGGACTAATTATATCAGGACATCCCATATTCCCTTCACTG
ATTAAGACAAAACAATGGGGCCCCTTATTTTACTTTGTGGAGCCAAATTAACAAAGCTGA
AATAGAAGTTCTCCTTATAAGAAAGGCTACAAACACTGGAAGGATTAGTCACAGTGAGCA
AAAATCGCCGATGAACCCAAAGTATGCATATGAGCAGGGATTCCATTGGGTATCTATAAG
GCTGGCAAGAGCTTTAGAATTTGGTTCTCAAGGAAATGAGGTGGGTAAGGAATCCCCTCA
AATGTCAATGTATCTTCTTACCATCTCAACAATCCTGGGTACC

Sequence 4791

Sequence 4792

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAGAATTCTGACAAGAAACATCACAAGTTTA
TATAAATACCCATTTGCATAGCAGCTTACAAATTCAATAGTTGTCAGAGGCTTGACGCGG
TGGGTCATGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGGCAGATCACTTGAGGTC
AGGAGTTTGAGATCAGCTTGGCCAACATGGCAAAACTCCGTCTCTACTAAAAATACAAAA
ATTACCTGGGTGTGGTGACGGGCGCCTGTAATCCCAGCTACCCCGCGTACCTGCCCGGGC

TABLE 1A 327/599

Sequence 4793

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGGCAAACACTACAACCACAACTCCACACACTGAAATGAGATAATATTTATGTTTTTGCCATAGTGATAGCTCAACTGCCACTTCATCTC
TTTTCCTGTTCTTCCTCCGACGACCCTTCAGTCTGTTTTCAAAAGCTTCTAGTTCAGCCT
GTTGTCTTCGTTTTTCTTCTAAGAGCAGCTTTGGCTTCTGCTTCTTTTATCTCAGATG
CTTTCCGCTTCATTTCCTTGCACGTTGTCACATTCTATTGAAACCTGATTTTCACGTA
CCTCGGCCGCGACCACGCTAAGGG

Sequence 4794

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTCAAACCAAGCTGCAGTTACTCCTTTGA GACACCAAAAAAAGTTGCTTCCATATGGTTACATTGTTAATTCCATAATCGCATTTACAA TATCATTACTGTTGTTCTTCAGGGCTCGGACTGCCTTTGCTCTCGACACATTTGCTTGTG ACATGACCAATTCAATGTCCTTAACTTCTACACCTGTTTCATCGACCTCTTCCTCTTCAC TCTCCTCTTGTACAGTTTAAAAACAAATCTTACACAGCCTTACATTTCAATTTTTTTCTT TAAAAGGAGTGAGTTGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACA CTGGGCGGCCGTTACTA

Sequence 4795

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGAAACTGAATTCTAGAAAGATTATTTTGGA AAGCCTGTAGTTACGTGTATTACCACTAGATGACCTTCCCTCATTATTGTCTCTAAAGTG GAGCTGCTAGTTATATGGACTTTCTAGAGGACTGTAGGAAATTTATGAATAATCCCTCTA AAGCAACAACGACAACAACAAAAAAAGTCTACTTTATATGGTGTTGAGTGTACCTGCC CGGGCGGCCGCTAAAGGG

Sequence 4796

ATTAGGGAGTCGACCCGCGTCCGGTCAAGATGGCAGCTGCCGACGGCGACGATTCGCTC
TACCCCATTGCGGTGCTCATAGATGAACTGCGCAATGAGGACGTTCAGCTTCGTCTCAAT
AGTATCAAGAAGCTCTCCACCATTGCCTTGGCCCTTGGGGTTGAACGGACCAGAAGTGAG
CTCCTGCCCTTTCTTACAGATACCATCTATGATGAAGATGAGGTCCTCTTGGCTTTGGCT
GAACAGCTGGGAACCTTCACCACTTTGGTGGGAGGACCCGAGTATGTGCACTGTCTGCTG
CCACCTCTTGAGTCACTGGCCACAGTGGAAGACAGTAGTGCGAGACAAGGCGGTAGAA
TCCTTGCGGGCCATCTCTCATGAGCACTCACCTTCCGATCTAGAGGCTCACTTTGTGCCT
CTGGTGAAGCGGCTGGCGGGTGGAGACTGGTTCACCTCCCGTACCTCAGCCTGTGGTCTC
TTCTCAGTTTGCTACCCCCGAGTATCCAGTGCCGTGAAGGCAGAACTTCGACAGTACTTC
CGGGAACCTGTGCTCAGATGATACCCCCATGGTGCG

Sequence 4797

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATA GCCAGAGAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACCAGGC TTGAAGTGTCTTCTCGGAAAAAAACCATCCTTGGAGGCCACAAGTGATGAGAAGGATTCTT TTTCGAATATAACCAGAGAAAAAAAGGATGGAGAAATATCTAGGAAAGTGTCTTCTCAGA AACCACCAGCCTCAAAGACTGCAAGTGACAAGACAGATTCTGCTTTGAATACAGCTACAG AAATAAAGGATGGACTACAATGTGGGACAGTGTCTTCTCAGAAACAACAAGCCTTGAAGG CTACAACTGACGAGGAAGGTTCTGTTTCTAATATAGCCACAGAAATAAAGGATGGAGAAA AATCTGGGACAGTGTCTTCTCAGAAAAAACCAGCCTTGAAGGCCACAAGTGATGAGAAAA

Sequence 4798

TABLE 1A 328/599

CCCCCCTTTTNC

Sequence 4799

Sequence 4800

Sequence 4802

Sequence 4803

Sequence 4804

CCCTTCGAGCGCCCCGGGCAGGTACTTGGACCAAGAAAAAGAAGATGGAAAATATCA CAAGCAAATTAAAATAGAAGAGAATGCAACAGGTTTCAGTTATGAGTCACTTTTTCGCGA ATACCTTAATGAGACAGTTACAGAAGTTTGGATAGAAGATCCTTATATTAGACATACTCA TCAGCTGTATAACTTTCTTCGATTTTGTGAGATGCTTATTAAGAGACCATGTAAAGTAAA AACTATTCACCTTCTCACCTCTCTGGATGAAGGCATTGAGCAAGTGCAGCAAAGTAGAGG CCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCTGTTGGAAGTTCAGTACCT CGGCCGCGACCACGCTAAGGG

Sequence 4805

TABLE 1A 329/599

Sequence 4807

Sequence 4809

Sequence 4810

TABLE 1A 330/599

AAAAAAAATTTAAAAAAAAAANNTTNNNCCNNGGGGGNAAAAANTTTTTTTT Sequence 4811

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATAGA TGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTCACAGGGAGTCCACCCCGGT GTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGTCAGAAAAATAACTCTT GATGCTGCTGTTTCGGCCCGCGTACCTGCCCGGGCGGCCGAAGGG Sequence 4812

CTGAATTGGGCCCTCTNATNGCTTGCTCGNCGGCCGCCAGTGTGATGGTATATCTGCAGA ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTCAGGCCCTAAGGCGGGGGAC AGCACAGTGTTCCCTTCTCCCAGAGTTCAGGGAAGACGTCCAGGGCCTCCTGGTCCGA TATGTCCATCAGGTCCATCTGCTCCAGCATGTCCACGTTCACTTCCATGGATGACATGCT GCCTATGGGCTCTCGCCGCTCTGCAATCTGCAGGTAGCCAGTGGACAGGTACCTCGGCCG CGACCACGCTAAGGGCGAATTCCAGCACNTGGGCG

Sequence 4813

Sequence 4814

Sequence 4815

Sequence 4816

TABLE 1A 331/599

Sequence 4817

GCNGGCGCCCGGGCTAGTCACTTGTTCAGTTCTTTCTTNCCTGTTTNTGGCCAGGTGTGC CACCCTAAACANAGGTAAATTTCTTTAGAGGCTAGNCACAAACAGACTTCAAGATTCCTA CGCAGGGAATTTGCCTN

Sequence 4818

Sequence 4820

Sequence 4821

Sequence 4823

TABLE 1A 332/599

Seguence 4825

Sequence 4826

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAAAGAAAAATTTAAAATCAAGATGAGTAAA
AGGAGAATGGTCTCAATATCCTCAAAAATGCAGTAAGAGAAGTAATTCCCCACTGAAAAT
GTCTCTCTTTCTTTCTATGTTATACCCTGGAGTCCTGGTTGAGGGGTGGGGGAATCAGAA
AAGTAGGTTTACATTTAACATTTTTCTTAACTACATTCACTTCTTAAAAAGGAACAAGAA
GTGTAAATAAGTATGTATAGAGTGAGGGATTAAGCATATTTGCATTGGGGACTCGTGTAT
TATGCTTTTAAGTCAAAATTAATATTCTCAAATTCGAATTTGATAGCTATTATTTCTAAA
TCTTTTAATCCTCAATTTTCCTGGTAACCTTCTTTCAAGAGTCTCCTTCTTCTAAAAGT
TGCCAAACCCTTTAT

Sequence 4827

CCCTTTCGAGCCGCCCCGGGCAGGTACCCGGGTAGCCCTTTTCTGTTGGTGCAGCTGC TGGCATTCCCCCCATGCAAGTTTTCAGCTTGCTTATCTATGTTTGTAGCTCAAGTTTTCA GGTCGCTCTTTGTTAGGAAAGAAATTATTTTGGGGCTGCTTTTTGTTAAAAGGGAAATTC TGCCTAAATAATTTTTTCTAACTTNT

Sequence 4828

Sequence 4829

Sequence 4830

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGGTTTTCTTAAAGTGAAAGTCAGCTATAT CTATCAACCTTTGTATTTGAATAGTCCCGCTTTACACTCTAAGAAGGGTCATAAACAGTA ATTTAATATAATTATGACCATGCTAATGTGAATTCTTAGGCTTTACTATATTTACAACAG CACAATTTTGATTCAAAAATCAGCTCTTCCAACTGTAATAACTATCTTCAAAAAACTGGTTT WO 01/070979

TABLE 1A 333/599

CCAGGCCAGGCACAGTGGCTCACGCCAGTAATCCCAGCACTTTAGGAGGCCAAGGCAGGAGGATCACTTGAGGCCACAAATTCAAAACCAGCCTGGGCAACAGAGCAAGATTCCATCTCCACAAAAACAAGTTTTGAAATTAGTCAGGTATGATGGCATGTACCTGCCCGGGCGGNCGCTCGAAAGGGCG

Sequence 4831

Sequence 4832

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCTGTGGCCTGCTAGGATCCAGGGTGCACA GCAGGAGGTGAATGTAGGATGAGCAAACATTACTGCCTGAGCTCAACTTTCTGTCAGATC AGCAGTGGCATTAGATTCTCATAGGAGCATGAACTTTATTGTGAACTGCACATGCAAGGG ATCTAGGTTTGCACACTCCTTATGAGAATCTAAATGCCTGATGATCTGAACTGGGAACAG TTTTAATCCCCCAACTTCCAGTCCGTGGGAAAAATTGTCTTCCACGAAACTGGGTCCCTG GTGCCCAAAAAGTTAGGGGAC

Sequence 4833

Sequence 4835

TABLE 1A 334/599

AAAGNCCCAGGGGTNTNNGGTTCCCACAGGNCCCCCCNTTNAAAGNGNAATNTCCAACCCTTGAATGCAAGACTTTTTGTTTNTTGGGGGGGGGNATTTTCCAAAATTTTTCCCCNCCTTTTTTT

Sequence 4836

Sequence 4837

Sequence 4838

Sequence 4839

Sequence 4840

WO 01/070979

TABLE 1A 335/599

Sequence 4841

TAGGGAGTCGACCACGCGTCCGGGCGGCGTCCGCAGTCTGCCGAGCGGCCTGCTCTGGGACGCAAGCGCTACTTCGCACCTGCCGCGCCCTGCCGAGCGCTACTTGCGGACGCAACCTTCGCACCTGCCGCCGCCCTGCTGAGGCTACCTGCCTTGCGGGGTACCGCAACCTTCGTCCAGGCCCTCCAGAGCGTGCCGAGACACACGGTCAGCGTATTGGACAACGGCTGCGTGTGGCCCCCGAGCAGTCCTCCACCTGCACGGTGGGAGTGTGATTGACGTTGGCAGTCGCTATGAGACAGAACAATGGAGCAGGCTACTTTTTGGAACATCTGGCTTTCAAGGGAACAAAGAACCGTCCTGGCAATGCCTTAGAGAAGGAGGTAGAGAGTATTGGCGCCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATCAAGGCACTGTCCAAGGACCTGCCAAAAGTTGTGGAGCTCCTGGCAGATATTGTGCAGAACATTAGTCTTGGAAGACCATTTTTGGAAGACCAGCAAAATGTAAGTCTTCGATTACCTTGCATTGCAACAAGCATTTTCAGGGGCACAACCTTTTTAGCCCAAGCTTGGTGGGAAGG

CCCTTNTAGCGGCCGCCCGGGCAGGTACTTNANAGGCTGAGGCAGGTGGATTACTTAA GCTCAGTAGTTCCAGACCAGCCTGGGCAAGATGGCAAAACTCTGTCTCTACAAAAATTCT AAAAATGTAGGCAGGCATGGTGTGTGTGTGCCTGTAGTCCTGGCTACCCAGGGGGCTGAGG TGGGAGGATTGCTTGAGCCTATGAGTTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGC ACTCCTGCCTGTGACAGAGTGACCCCTTAAAAGANAAAAAAAGGCTTTTTNTGGTGCA NANCNATTTTAGGGNAAATNTTCTTCCNATGGNGNGGAGTTTTTNANGGGGCCTNCTGGG ACTAACCCATNTTTNCGNTGAAATNGAATTCCTTAAGTTCTTGAAAAAAATNCTNTTTTNA ATAAACTTGCTCTTGGGTTTCNTGGGACAANAATNAACTNCAATTCNTTTTTTGTTAAAN AAAAAAAAAAATTTTTGTTCNTGGCTTTTGGCAATAATTCAAAAAAAACCTTNTTGGGATA ACCCCTTGATCAAACAACCCGGGTTTCNAAATTTTTTTTCCTGGAATCGGGNGGNCCATTT TGAACATTAANTCCTTGACCTTNNCCNAAAAAATTCCAAAANCCAAGGCCCTTNAAAAAA AATNAAATTCCAAAACCCCCTTCCCNNCCAAAANTNCNCTTTTGGGCCGGGNAANCCCNNCTTT TAAGGGCNAATTTTCNNCCCNNCTTGGGGGGGGGNTTNTTNCAGGGGAAANCCCANNCTTTGGGGNCCCNNNCNTTNGGGGAAAAG

Sequence 4843

Sequence 4844

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGCCATCATCTATAACATCCTGCTCTTTGGGCTGACCAGTGCCCTGGGTCAGAGCTTCATCTTTATGACGGTTGTATTTTGGTCCCCT

TABLE 1A 336/599

Sequence 4847

Sequence 4848

i

TABLE 1A 337/599

GAAGAACCTGGGTT

Sequence 4852

Sequence 4853

Sequence 4854

Seguence 4855

NCCTTACGTGGTCNGGCCGAGGTCAGTNCCTAAAATGTCCTTCTNCAAACAGTAAAATAT TTCACTCTGTAAATCATCACTAAGTAGTTATTCTGCCTGTTGATTATGAGCCTCCAAAAA TGTTAATGCTTGAAGGATGGTTTGGGAGGCAGGGAATCCTTTTCTTAAAACACCTTTAA TGAGGCATATGTTACATATCATAAACACCCATTTCAAGTGTCCCTGCCCGGGCGGCCGCT CGAAAGGGCGAATTCCAGCCACTGGCCGGCNGTTCTAGTGGATCCGACCTCGGTCCAACC TTGGCGTATCATGGTCAT

Sequence 4857

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGGGATTAAGTTTCCAACACATGCTTTTT GTGAAACATGTTCAAACCATAGCATTTTCAAATTCCAAAATAAGATATCCCTTACAATAA GTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCAGGGCA GGANGATTGCTTGAGCCCAAGAGTTTGAGACCAACCTGGGCAACATAGT Sequence 4858

TABLE 1A 338/599

Sequence 4860

ACTGTTTTGAAGAACAAAGGGCTCAACCCTGATAACTCTAAAATTTGGGATCTTGTCAAA
TTAANTTTCAACATTCTTTAAATTTTACCCTNATCCTTGTTTTCTTCGCTTGGACTNACG
NCCTTTCTGACTCTNTTCCGCTTTTGGGTTGGTCTTCTAACAGTAAGGNATGCTTGTAGG
TGTGGCTGGTTNTGATCCACACAGTGGAAGGAAGGTCCTCATCCCAGCTTCTGGGTGC
CTGTATCCCCACCTGATATGTTGCCTGCTTNCGCCGATGAAGTCTAATAACCTTCCCCCT
GCNATTCCCCTAAAGAGGGAAAATAAACTT

Sequence 4862

Sequence 4863

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC GCGGGTAGCATAAAAAATAAAGGTATAAAGAAAGATATACCATGTTAATACTAGTCAAAAG AAAACTGGAGTAGCAGTATTGATATCAGATAAGGCAAACTTCAGAGGGAGAAAAATGATC AGGGATAAAGAGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAA TCCTTAATGTGTATGCACCTAACAACAGCATCAACGTATGTGAAGCAAAAACTAATAGAA CTGCAAGAGAAATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAG TAATTGACACATTTAGCAGGCAAAAAAAATCAGTAAGGATATAGCTGAACTGGACAATACT GTCAAGCCACTGAATCTAATTGACATTTACAGTATACTTCATCAACAGAGTACCTCGGC CGCGACCACGCTAAGGG

Sequence 4864

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TABLE 1A 339/599

Sequence 4866

Sequence 4868

Sequence 4869

TABLE 1A 340/599

Seguence 4870

Sequence 4871

Sequence 4872

Sequence 4874

CCCTTCGAGCGGCCGCCCGGGCAGGTGTTAAGTTTGTGAAAAAGTGATGCAATTTGTTAT ACATTCAAATGCAAATTAGAACTAGCTGCCTTACGATGAGATTTCACTGTCATTTTTTTA GCACCCTAATTTTTGTCGGTTCTGTAGGTTTCAAGTAGCAGAAACTTACATCTATTTCCT TCAGAAAATTAAGGAGCAGATATTTTAATATGCTTTATGTAAATAGGATTCTGATAATTT TAGCTTTAGTTAATGCAACACACTTNCCTGGGCACAACCATGACCTCTCGAGAACTGGA AAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCCTGACAACTTCAAATAAG TTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTGTCTAGCCGTA GAAACAGTGACAACTTAAA

Sequence 4875

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG

TABLE 1A 341/599

ACATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTTGTCTTGTCGCAAGT
AAATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTCATATCAGTGGGATGTTGTG
TCCTGTTTTTGTTTCCATTATCCAATAAATGCAAAATTTCTTCTGAGGATTTGGGCTGGT
GTAAAGTAAGTCCATGAACGACCACCCCTTTTTGGGTATCTTCCCGGACAGCAAGTGGCC
CTGAATTTACTAAGAGATCACAAATCTGTTCATTATATACCTCCAGATATGAAACTGCAG
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4876

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAATCAGGAATGGCCATATTAGTGTCA GATAAAGAAGACTTTAGAGCAAAGAAAATTACCAGAGACAGAGAGGGGCTGTTACATTGTA ATAAAAGTGTCAAACAACCGAGAAGACAACCAATCCTAAATGTGTATGCAGAAAATAACAC AGCTGCCAAAATACATGAAGGAAAAACTGTCATAACTAAAAGGAAAAAGACAAATCTACA ATTACAGTTGCAGACTTCAGCACGCCTCCCTCTCTTACTGATAGGTAGAACAACTAGACA GAAATAGCAAAGAGGTAGAACT

Sequence 4877

Sequence 4878

Sequence 4879

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTCACATAGCTTGTTGCCCCGTAAAAGGGT
TAACAGCACAATTTTTTAAAAATAAATAAGAGGTATTTATAGGATTAAAGTGACTTCAT
TTGTATACATTTGGAATCTAAACCAGCTTAAAAACAGTTTCCTCAATGACTTAGATACAC
AGTATAACTGATGCTCTTCTGGAATACCACATGAGACATGGTCAGAAACAGTGCTTGGAA
GGACATTACACAAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCCTTTTGTTTTATTC
CTGAAGGAACATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4880

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATTACTTCAAGATATGTGTAGGCAAATATG
CTAANCTTNTACAGTTTAGAGGGTTTTACAAAACTGAAAAGTGAAATTGAGGGTCACATG
AACCTGCCATGAANTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTACTA
GAGTATTTGTAAACTAAAATGTTATATAGAAAATAACCNCNTATTNGGTCATTTACTCNA
ACATTTATCAAGTGCCTATTTTGNGCCAAACATAGCAAATAGGGGCTGTGAATAAAGAGG
ATGAAAACGTGCCCTTATCCTTAAAGAACTCTNATAAGAATCTTATTAAACNAACCCGAA
GCNGAGTTNNCCTTCCCCCCTTTATGTNAACTAACCNTTATTTCCCGGGAATACCTTTCN
AAATTCCTGAACTTTTTACCCAAACCNATTTGACAGAAGTCCCNCGTTTATAAACCTTCT

TABLE 1A 342/599

TTNGGAAAATATTTGGTAAAAGGGCCCNTCTANACNAAATNTGCCAGGGGNAAAAAATT Sequence 4881

Sequence 4882

Sequence 4883

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACTTTGGAAT CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAAATCAGAAGAAAG GTAAAAGCAAGTGGCCACATGATCGCATTAAAAAAAGAAAAAGGCAAATATCTCAGTAAGT ACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4884

Sequence 4886

GANAAAGGGTTTTACTATGGAGCCAGGCTGGCCTTGAACTCACAGCAGTCCTNTAGCTCC
AGCCTCTTGAATGCTGGGATTACAGGNGNGAGCCACCATGCTGGGCTGTCTTGGAATGN
CTCCTTGAACAANANGNGCAAGGATGTCTCGAAANAAAGACAGTCTGAGNGGGCTCTGC
TGTACATCAAGCAAAACACCCACCCCTTGCTTAACGCCATGANACCTNGGCTCACCCTGT
CCAGGTCCCAGGGACCCAA

Sequence 4887

TABLE 1A 343/599

CCATCTCTGGCAAAGAATGACCCAAGGGACGAGGAAG

Sequence 4888

CCCTTAGCGTGGTCGCGGCCGAGGTACTNCTTCTGTNGACATGGGGGGTCTNATTATGTTG
NCCANGNTGGNCTTGAACTACTGGGCTCAANCAATTTACCCGCCGNCATGGTCTCCCAAA
GTGCTCANATTATAGGCATGACCACTGTGCCTGGCCAACATNAAACCATGTGTTATATAC
ACAAGAAGCCTGAGAGAGGAAAGAAGGGTANGCGCCCTGCNCATGCCGATGAAGC
Sequence 4890

Sequence 4891

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCTAAGCTATATATTGAGCACATCCAGT
TATATTTAAGGTGGTTCTGTTAGTCCAATTTCATACTGATATAAAAGAACTGCCTGAGACT
GGGTAATTTCAAAAAGAAAGAGGGTTTAATTGACTCACAGTGCAGCATGACTGGGGAGGCC
TCAGGAAACTTACAATCATGGTGCAAGGCAAAGGGGAAGCAAGGCACCTTCTTCAAAAGG
TGGCAGAAAGGAGAAGAGCTGAGCAAAGGGGGAAGACACCTTATAAAACCATGAGATCT
CAATCATTGTGCAAAAATCACAAGCATTCTTATACACCAATAACAGACAAACATAGAGCC
AAGAGTGAACTCCCATTCACAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACTT
ACAAGGGACATGAAGGACCTCTTCAAGGAGAACCACAAACCACTGCTCAATGAAATAAAA
GAGGATCAAACAAATGGAAGAACATTCCATGCTCATGG

Sequence 4892

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAACTGGGTTTAGCAATTCGGGTAGGCACAG CAGGTCCGGCTTGGCCTGCTTTGACTGCCTTTTCGGGAGTTTTAAACCTCCTACA CTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGACTTAAGCGGAATA AGTATCGGCTTATTTCGCCTGCGATAAAGATGCTTAATTCTGCGTTCGAAATATTCTGAG CGAGTCCTGGGTTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGATTTTAAGTGCCCC TGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACCAGTACCTGCCCG GGCGGCCGCTCGAAAGGG

Sequence 4893

CCCTTANCGNGGNCNCGGCCGACGTNCANTTAATATGATTCANTATAATCTGCAGTCTCA
TGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAACCACCTCACTGCTTACTAG
AAATGCTAAACACTGGAAAAAATGGAATTTTATACATTTGTTTTCTTAAATTTTGACAGA
TATTCTTCAGAAAGTTAAAACTGCCTTCCACAAAATTTTGTGTGTATATTGGCACAAGGTG
ACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTTAACAATACTCAAGAATAATCTG
ACAAGTNTACATCAATGTCTGAGTAAAGAATAGGTAAATAGACACACCCCTATAAAAGAT
AGTATTATNGNTTAAATATACTATTGCTNTATAAAAAGAANGTAACACACAGGAAATGAC
CCTTTTTATGACAAGCCTATANACCCCNTTGAAATCACATTATTAGNTCTTGTAACCACA
AAAAAATGANAAAAAAAAATATT

TABLE 1A 344/599

Sequence 4894

Sequence 4895

Sequence 4896

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCAGGCAAATGTGGTTTGGTGCCTGTCC
TGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTAACTGTGTGGATAGAC
CTGTGGAAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGA
ACTCTGTGAAAGGCAAGAAGTCCTGCCACACCGNCGTGGACAGGACTGCAGGCTGGAATA
TCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCTGCAAATTTGATGAATATTTCAAGT
CAAAGCTGTGCCCCTGGGTCTGACCCGAGATCTAATCTCTGNCTCTTGTGTATTTGGCCGA
CGAAGCANGGTGAGAATAAGTGCGTTCCCAACAGCAACCNAGAGATACTACNGCTACACT
GGGGGCTTTTCCGGTGCCTGGCTTAAAAATCTGGAGACGTTTGTATTTTNTGAAAGATTT
CACTTGTCTTNCAANAACACTTGATNGAAAATAACAATGAAGGCATTGGNCTAAAGGATT
TGAAANCTTGGCAGACTTTTGCGCTGCTTTNCCCTCNATNGCAAAACGGAAACCCTTTGA
CTGANGCTTAGAAACCTGGCATTNTTGCCATTGGCCCNCNAATTAATGCCCNNGGTGTCT
TNNGGATGGGATAAAGGTGGAACNCCCTTAAAAAAAGGTGCTTGTTTCAANCAACANGGCT
NAATTTGGGAAAAAAAAAAAA

Sequence 4897

CCCTTAGCGTGGTCGCGGCCCGNTNTACCAGAATCGGCAGAAGAATCAGCCCCATAAATT
TTAAAGACTTCCTCAATCGGGATACTGTTCATTAAGATTCCAGCATAAGATGATAAAATC
ATAGCTTCTCGTTCTCTACGATTTGGATATATGGGTCTGCCATGGAGTGGTATTTTCAGT
TCCTCCCACTCCAGCCAAGTTAAGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTG
ATGGCCAAATCATAAGTGTGCCATATCATCTAGAAAGGTGAGTTGCCGTCTTCCTTTTGG
GTCAAATTTCAATTTTCCCCGAAGCTGATGCCAATATAATCTCCCAAGAGCTTTTTCATT
TCCTTCTTTATGAGCCTTCTTTCCATGTTAAAGGGCTTAGCCAGCTTGAGCAAGGTATTN
TGCAGTTTACACTAACACTTAGACCCAGCTTTTTNNTCCCCGCGGTACCTGCCCCGGGCG
GGCCNNTTCGAAAAGGNCAAAATTNNACCCCNCNTTGGGGGCAGGTTCTTAGGNGNAATC
CANGNTTNGGTANCAAANTTTGGGNAANAAAGGGGCCAATGNTGGGTTNCCGGGGGGAAN
ATNNNNNANNATTNNNAAAAAATTTC

Sequence 4898

CCCTTANCGTNGNCNCGGCCGACGTACNCNAAATACTTCATACTAAACTTTCTAGAGAAT TAAACTTTAATGATGGGCTCAAANNANANANAACCNGCCNACTAATTTGTTCCTGCCCGG GCGGCCGCTNAAAAGGGCGAATTCC

Sequence 4899

TABLE 1A 345/599

Sequence 4902

Sequence 4903

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTCAAGTGAAAACATCAATAATAAGAAAGCA AAAAAGCTTCTTCCTGATATGAAGAAAGTTTGGGTGGTCTGGATAGAAAATAAAACCAGC CACACATTCTCTTAAGCCAAAGTCCAAAGCAGAACAAGGACCTCTCTTCAATTCTCTGAA GGCTGAGAAGATGAAGAAACTGCAGAAGAAAAGTTGGAAACCAGTAGAGGCTGGTTCAT AAGCATTAAGATAGAAGCCTTCTTCATATGAAAAACTACAAGATGAAGCAGCAAGAGCTA ATGTAGAAGCTGCGGCAAGTTATGCAGAAGATCAGGTTAAGATCATTTAAAGAAGGAGGC TACACTAAACAAGAG WO 01/070979

TABLE 1A 346/599

Sequence 4906

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAAGGACTTACTGGAAAATTCCATG CTGTGCGCTGGCATCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGGACC GTTGGTGTGCAGAGGGTACCTGCCCGGGCGCCGCTCGAAAGGG

CTTAGGGAGTCGACTCAAGCTGCCGCGGTTTCCTGCTTCAACAGTGCTTGAACGGAACCC
GGTGCTCGACCCCTCCGACCCCGCCGCCGCCGCTTTGAGCCTTTGCAACTTCGT
CGCTCCGCCGCTCCAGCGTCGCCTCCGCGCCCAGCCGCCATCATGACCACCGCGT
CTCCCTCGCAAGTGCGCCAGAACTACCACCAGGACTCGGAGGCTGCCATCAACCGCCAGA
TCAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCCATGTCTTGTTATTTTGACCGGG
ATGATGTGGCCCTGAAGAACTTTGCCAAATACTTTCTCCATCAATCTCATGAAGAGAGGG
AACATGCTGAGAAACTGATGAAGCTGCAGAACCAGCGAGGTGGACGAATCTTCCTGCAGG
ATATAAAGAAACCTGACCGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCAC
TGCACTTGGAAAAGAGTGTGAATCAGTCACTACTGGAACTTCACAAACTGGCTACTGACA
AAGAATGATCCCCACTTATGTGACTTCATTGAGACGCATTACTGAATGAGCAGGTGAAAT
CCATTAAAGAA

Sequence 4908

Sequence 4910

CCCTTAGCGGCCGCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG GTGGTGTTTACATTTCCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG CTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC GAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGA CAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACGCTAAGGG Sequence 4911

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTAAGAGACTATGGAAGAATTTCAGGGTAGC TGGGATGTCTTTTACATAATACAGCATCTAGAAAGGAGGAAAAAGAGAAATGAGCTGCTT CTGTATGTTGAAGTCTTTATTGCTTGGGCTAGATACTCCTAGAAAGTTTGATTTTCTAGT TGAGTGAATTTTACCCAANAAAACACTTAAGAAATTTAAAGATTAAAGACGTTGCATGAA GACATAGAACAATAATGTGAGAAAATATTTGGGGA

Sequence 4912

GGAGTCGACCCGGGTCCGGCGGCTGAGCAGGGATTTAACCCGCCACCATGTGGAGCAAA AGAGCGAAGACCAAGACCACCAAGAAGCGCCCTCAGCGCGCAACGTCCAACGTGTTCGCC ATGTTTGACCAGTCCCAGATCCAGGAGTTCAAAGAGGCCTTCAACATGATCGACCAGAAC CGGGACGGCTTCATCGACAAGGAGGACCTGCACGATATGCTGGCTTCAATGGGAAAAAAT CCAACTGATGAATACCTGGACGCCATGATGAATGAGGCCCCGGGCCCCATCAATTTCACC ATGTTCCTCACCATGTTTGGAGAAAAAGCTGAACGGCACCGACCCTGAGGACGTCATCAGA

TABLE 1A 347/599

Sequence 4913

TCAACAGGAAGTAATTGCCTGAGCTNTTTAAAGCAACTGANTTGAATGTCAGGAAACTGG AGNCCTAATCCAGGCCCTTTTTTGACTGACTGAGTTGGGATAAGACTTTTTACCTNTAGG ATCATCAGGNGCAAAATGAAAAGGTTGAAAAAA

Sequence 4917

Sequence 4918

TABLE 1A 348/599

CCCTTTGGCCGCCCGGGCAGGTACAGGCCAACATGATCAAAGGCATGCTGGAAACAAGCG
TATTAAAGATCAGCTTGGATCAAGCTTTCATTTGCATCTGCCTGAACCGCACATATTTNA
GTCTGAAGGGAAAATTGGTAATCAAGTTGAGAAGTCTATCAACAATGCTTCCTCAGTTTC
AACATCCCAAANAATTTGTTGTAGGCCCAAAACCCATATTTCTAATAAGTATGGAAATAA
TTCCCTCCATTCTTCATTACTCACACAAAAATGGGAAGTACCTCGGCCGCGACCACGCTA
AGGG

Sequence 4919

Sequence 4920

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAAGGGGCACCATTTCAAGAGCACTAG
GACTACATTAAACTTAAATATATCCCACATTCTTAAAAATGTAACTCAAAACCAAATCT
AGTCTTAAAGAAGCTCCAATAACTAAAACTACATTAACAGGCACGATGAACAGTGTAAAC
ACTGTTAATGGGCACCAAGTTTAACAGGGCAGACAATATTTGCTTCTGCATTCACACTTA
TTCAATTACATTTTTTAAAAAAAATGATGCTGCTTAAACTATTAATGTTTTACCAAAAAAA
TAATAATTTTAATAAATACAGCAAATGCTAGAAATCTGGCTAGGTTATCATGCAAGGTAT
AACCAAGACAAACTCAAATTTATAATAAAAGGCAACTTGCATTCAAAATGAACTCTACCCT
TATATTTTATTAAAAAGGGCAAACATCATGAATTAACCCAGCCGCTTACTTGAATTACAAA
AGTAACATGATTCAATATGAAAATAAGAAACTGTCTACAAATCTCTGACAGTAATAAATT
GCAATATACAATGCATACAGGAGTCATACAGAGCAACAACTCTCGTACCTGCCCGGGCG
Sequence 4922

CCCTTCNAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCATANGCTGGCGGATCGCTTGA GTTCATAAGTTGGGGAACAGCGTGGGCAACATGGCGGAAATCCCGTCTCTACAAAAAAA NAAAAAAAAAAANNNAAATTNCCCCCNNGGGGGCCCCCNCTTTTTTNGNCCCAATTTTTT GGGGCANNGAGGGANNNNNNTTNNCTAANCCCGGGNGTNGCTGGGGNAGTANACATAAAA ACTCCCNNNANCNCCCNNGTTGNNTAAAAATAGGAANATTTNGNNCTATATTNAAAATAC ATANA

Sequence 4923

Sequence 4924

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGCTTTGGTATGGGTCGCGGCGGAGTG GTTGGCCAAGTGCTGCCTAATAATTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA

TABLE 1A 349/599

GCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCTAGTGTGCCCATT AACAGGTCTTCCAAAGTACCTGCCCGGGCGGCGCTAAGGG Sequence 4925

Sequence 4926

CGCGGCCNAGGTACCGTAAAAGAAGAAGAAGGAATGCCTAAAGAAACAGACATAGAAATCATC CCAGAAATCCCTGGAAACTCTAGAGCCACTGTCCCTTCCANATGTGCTGAGGATCTNGNC AGTTCTGGAGGACACCACANACCANCTCTCTATTCTGAACTACATNATGCCCGTTCAGTA CCTGCCCNGGCGGCCGNTCNAAAGGGCGA

Sequence 4927

TABLE 1A 350/599

CATGAGCCTGGTTGAGACATGGTTATTTCATCGCAATATCTTGGGGAACCCATGAATGCT CTGAAATGCCTTTGGTTTANAAATGGATGAAGGAGAGGCCATGGAAATATTTANACCTTT TGGAGAGATCGAAAGGACAGGTGATTTATCTCCAAGTTCACCTCGAGGCATGACTTGGGC TGTC

Sequence 4931

CCCTTTCGAGCGGCCGGGCAGGTACTTGCAGTTACTGCAGATGCTCCCAGGAAAGC CACCATCATTAGTCTTCGCCGGATCTGGATGGGCTGTGGTCCTCCATAGTACCTCGGCCG CGACCACGCTAAGGG

Sequence 4933

Sequence 4934

Sequence 4935

Sequence 4936

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TABLE 1A 351/599

Sequence 4938

Sequence 4939

Sequence 4940

Sequence 4941

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGAGCTAAATTAGTCCCCAAACCAAATTC
ATTATTTTCTTCTTAAAAATGTCTTTTACTTCCTTGAATCTGCTTCTGTATTTCCCATGT
AAATTTACAATGTATTTTGTCCAGTTACTGAGATAAATACCTCTACTTTTGCACCTAGAC
ATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTGTCTTCTAAAAGAACTAAAATCT
AGCATCTCCTCTCATACCTCCTGCCACTGTCTTCATTTTCCATACCTGGAGTTATGAT
AGTAGATTTTTAACGAGCTTTTCCCGTCTCTGTCTTCTACCTAGATCCAGTATACTTCTG
CAGGCTGGTATGTTTTTCCCCCTAA

Sequence 4942

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAACCTCTGC

TABLE 1A 352/599

Sequence 4943

Sequence 4944

Sequence 4945

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAAGAAAATCCTGAAAGTCACCACCTTGGT CTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAAGGGACGAGAAAAAG GCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCTCTCGATCCCAGGGAGCTTCTC ATTCTATGACCGACTGTTATCAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCCGAAATCA GAAGCAGCCCCCACGGCCCTGTCCAATCTGTAAGGGAGACTACTGGAAGACAAACTGCCT CCAGAAACATACCGT

Sequence 4946

Sequence 4947

TABLE 1A 353/599

TAAAGAATCTGACACTGGCCTG

Sequence 4948

Sequence 4949

Sequence 4950

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTCGATCAA GATGTTATTCACAGGTAACAGTGACCTGGTTTGGGTTTTCTCTTTCCTCCCTGGCTCTAC ATGTCTCATGGTCAAAAGAACTTGGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAA AGGAACCTGCATAACCCCCAATAGGCCTGGGCACAGTGGCTCACGCCTGTAATCGCAGCA CTTTGGGAGACCGAGGCGGGCAGATCACGAGGTCAGGAGATCAAGACCATCCTGGCTAAC ACAGTGAAACCCCATCTGTACCTCGGCCGCGACCACGCTAAGGG Sequence 4951

Sequence 4953

CCCTTAGCGTGGTCGCGGCCGAGGTACGATATTGCATTTAGCATTTTAAAAAAATATGGTT GTTTTTCCTTGAGTTGTGAGAGTTTCATTATATGTTATGGATACAAGTTACTTTATTAAA CGCCACTTTTTCACTTGGCACAGTTCTCCAAATTAATTGTATTAGTAGCAGAGTCATTAT TCGTATTAGATTTGGGTGTGAAAGAAAGAGACTTCAGGATGACTTGAAAGTTTCTGGAT GGCTGGGGATGTTAATTATTGGAGAAAAGGACTTCAGGAAGACCAGGTTTGATTAAGAGG GTGAACAGTGGGTGTTGCTGGTGGTGGTGGTTGATTAGGAGTTTAGCTTCTACCCCCAAGG ANAGTTTTGGGATGCTTATTTGNAATACCAAAGAGGGAAGATNTCNAGGGAAAGTACCCT

TABLE 1A 354/599

GNCCCGGGCGCCGCTCGAAAGGGCAAAANNTCCAAACNCACCTGGCCNGNCCGGTTTAC CTAGTGGAATCCCGNGCTCCGGNTCCCCCAAGCTNGGCCGTTNNNAATGGTNCATAGCTN TTTCCCTGTGNCCAAAATTTGGAAATTCGG

Sequence 4954

Sequence 4955

Sequence 4956

CTTAGGGAGTCGACCCACGCGTCCGCGCTGTTGTTCTTTTGTTTTAAAATTGTTCTTCGT
TTCTTTCATTAAAGGTTTAATCAGCTAGATTAGAGAGAGCATCATTTGTATTTAACAGCTG
AAACTTCGGTACGTTGCCGTTTAATGAATGAACTTGCATTGTGTAGCCAGGGCCTACAAA
GGCTCTTGTCAGGAATACCAGCCCTGGCTGGGGCTGGTGCTCAAAAGAATTTTCAGGTGC
CACCNGGAATAGNTTCCTTGGGTGGATNCCCANCTTANGTGGAGAAAGGGGGATGCCTGN
TCCACTTCTAGGTATGAGGGTNTGCGACTTTGGATCTTAAAATTATGCTAGACTA
Sequence 4957

Sequence 4958

Sequence 4959

TABLE 1A 355/599

ACTCTGAGGGACCATCCCAGCTTCAGAGCTCTCCGTGTGGGTTACTGAAACTGTATCACA GTCCAACTTCTCCCATGGAAATCTGGCTTTCTTCCTTTACATGGCATTGGTCCCAAGAGG CCTCCCTAGTAAATTTGCTG

Sequence 4960

Sequence 4962

CAAGTGAGCAGGCCACCTGTTGCAGCAAGTAAAGTGGCTGTGAGGCCTAGGTGGGGGC
ATCACTGGCTGAAGGTCCGTGGCTTACAAAGTGACTGAGAAAAATCATGTGTCATAAGGT
GCTTTGGGCTACTTTATGATATACTCTGAAGTCCCTGTTTCATGAAAAATGCAGTTTACG
AGTTTTCCAATTTTTGTTCTTTTGTTCTATGGCTTTGTTCTATGTTTCATG
TTACTGTGTATGTTACTCTTTGGGTACTGTTCTATGGCTTCCAACAAGAAATGGGGGAGG
GGAGAATTATACATTATACGTCCATGTTCATATCAGAAA
Sequence 4963

Sequence 4965

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAGAATTCAAACTTCAGCAGTCATGGGTG
AGTAAGGAAGTCTTATAAATGTATTTTAGCCACCTAACAAGAAACTAGAAATTTAGCAAG
TTCTTTCACATTCAGGACAGTTGTGTTCACTAGATCAGAGGCACTGAGACATGAAGAACA
GACCCCTAAAAAGGGAAAGTGTTCCTTTCAGTTTTAGGACACCACTGGAATATTAGGGAA
GTGGAAACACAGCTGCCCACTCTACAGTATGGGTTGCCTTTGTGTCCGGAATCACTGATGGAA
CGTCCTGACCTCCATGCCCTTTTCAGGGAGCCTTGGGAGGAGCCCGAATCACTGATGGAA
TCGGACAGTGCATGGAGTTCAACAGGACGAGGGTAAAGTGCAGGGGCAAGTCCAGG
TCATACTGAGAGACAACGAGTGGCGCTGGACAGACAAAGATAAAAT

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Sequence 4966

Sequence 4967

Sequence 4969

Sequence 4970

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTGCTCTGTAATTGATTACAAAGGTTAATT CATTAAGAATATTTTTCCAGTCATTTTACAAAAAATATTCTCAATAAAATCACCAATTAT ACCAAATAAACACTAAAACACTCAAATCCTTCTAACAATACTTTATATATTTTAAATACCA TTTTGAAGATGAGTCAGAAAATTACCTGTTTCTGAACCTCCACCTGCTCATACACAAGGG GTATAGGTGACGCGGGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTT TCATCCCTCCCCTGAATAGAAAAGCAGGGGTCACCATTTGTATCCTTACCCTTGAGGT GTTTTTGAAGATGCTGAACTCTTGAAGTTGAGCTGAGGCAGAAAGGTTGGAAAAATGCA GCCCTCTGGGTATT

TABLE 1A 357/599

Sequence 4971

Sequence 4972

Sequence 4974

Sequence 4976

CCCTTAGCGTGGTCGCGGCCGAGGTACCGTCCTTCATGACAGCAGGAAGACCCCCGGCAC AGAAGAACAACCGCGATGTCAGCACCGCGGGGATGGCTGCCGGAAATGCTCACTCC CCCCCGCGTACGTTAGTCTGGGGATAGTAAGTCTGGGTTAATCTATTAAATTATTAG

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CCCTTAGCGGCCCGGGCAGGNCCTCATATATGTATCTTCCCTGAACCTGTAA
ATTTGGACTTCTTTACAACTTAAGCTCATTTGCTATTTTTGATGCAATGTTCTTAAAGGC
AATAGATGTCCCAGATATTCGCTTGAAGCGAACCCCATTAAGTGACAGTCGTGGCAACTT
GCAGACTTCCATCTCCCACTGCACGAGGCTATCCTGTCTAGCGTCTCCATGGACACAGAA
AAGCAAAAATCTCTCTTTTTGCTCATAATCACAGTTATTTGCATCTAACACTTTTCGGAT
TTCTCTCATCATGTCATTAGGGGTCCATTGAACTAGTGGTCTTCATACTCCATGTGAACC
GCAAAGAACGCGGCTTAAAATCTTTACCCTCTTCCTTGN

Sequence 4978

Sequence 4979

Sequence 4980

NCNCCCTTTCGAGCGGCCGCCCGGGCNGGTACCCCAGTCCCATTCCTTCTNACTGACTGG GGCCTCCAGCCACCCCTGCCAGTGTTCTCCAGCTGACANATACTTGAATTCTCCCTGGGA GAGAGCTCCCAGAGGGAGGGCAGGCTGCCATCATTGCTGTTTGGGCGACTTAGCTGTTC CAGGCCTTCAGGCTTTGGGGANCTTAAGCAAGGGGTTGGAAGGGGAACCCCAGCACAGTA ACAAGCTTGCCCCGACAAAAAAAA

Sequence 4981

GGGCGAATTGGGCCCTCTANAGCATGCTCGACGGCCGCCAGTGTGATGGATTATCTGCCA GAATTCGCCCTTACGTGGTCGCGGCCGAGGTCTGCCCTGCAATCAAGANGNCTCTTCAAA GAGAGAATCAGCTCAAACTGGTCAGCTCTAGATTAGAATGGAAGTTCTTGGTGCCGGCCT TTTCTTGATTTTGGAAGCTTCAGTCACTCACTGCTATCAATTGATGAGGTTCAATCCATG ATATTTTGATCTTTAGGTGAATTCTAAAACATGTTTAAAGTTAAAAAGGCCGGGCGTACC CGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCCACTGGCCGNN Sequence 4982

TABLE 1A 359/599

Sequence 4983

Sequence 4984

Sequence 4985

CCCTTCGAGCGGCCGCCCGGGCAGGTACATCCTCGGCCGGGAGTCCCCACTGTCTCTCT ACAATGAGGAGCTGGTGAGCATGAACGTGCAGGGTGATTATGAGCCATCTGATGCCACCG GGTTCATCAACATCCACTCCAGGCTGAAGGAATATCATCGTCTCCAGAGCAAGGTCA CTGCCAAATAGACCCGTGTACTATTTTGATTTTTTGCCTTAGTGATTAAAGGAGGAACATAT GTGGAAACAATCATCAGATCTGAATGCTACCTCGTCTGCTTCCTATTTTTTGTCATCTAGG ATGGGTCACAATATTCTTGAGCCTATTTCTTCATCTTAAATCTCAATATAGAAGTTCCCA AGGTTGTTACGAGAGTTGAGAGGCCACGTAAGCATTGCTTTGTGCATGCTACAGCTCTTTT TGCACAAAAGTCGTTATAAATTGTTGCAACCCACAAAATAAAAGG

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACATTATTAAAGATAGTCAAGAACTCTAACC CAAGCATATGGGCATTAAANAAACTTATTAAGCCTTTTCTTTGCAGGAGCCAAAGGAGAC AGGGGAGCCCAAGGTTTTCCTGGCCTCCCGGGCAGAAAAGGGGCCATGGAGATGCTGGA CCTCGAGGACCCACAGGCATAGAAGGATTCCCAGGGCCACCAGGTCTGCCCGGTGCAATT ATCCCCGGCCAGACANGAAATCGTGGTCCACCANGCTCAAGAGGAAGCCCAGGTAAAGGG TTTACTTTTAAACAGCATAAAATAACAAAAATCATGTTTGACCTCAAAAGTTTTTCAACC TTCTCCTCATGTTACCTTGTTGCTTNTTNTTTTCCCTGTGGTCATNTTCATTCCCCCACTA CCTGTGGTTTCCATACCCAGCAGTTGTCAANGTAAAGGNAGCCTGTTTGAGGGATGCATA GTTAAT

TABLE 1A 360/599

Sequence 4989

CCCTTAGCGCNGNCCGGGCCGGTGCNCNGGNGACATGGNNNNANTNAANNNGGNCCNGGA TGAGGAATAANACCAAGGCCNACCATGCCCCATGCTCAGCAAGNANCTGATNNANGTTNN NGACCCTGANNTCTTGNNGNACTCACTGNATAGATGTTATNANAACTCCTTCCAGTTNAC TNNNNNGCCTGACTCCTGCCAGCCCTATGGAACTCCTTTTTGCATTGGAGGAAAAGCATG TACGGCTTTTCTCTTGACNGCNGGAGAAATACAAAAGAAGGGGAAGGGGAAGAAAAAGAAG GGGANGANNATCTTTTATTACTATACAATGACACCGNTCNTGTGAGCTCACCANNTGCTG GGTNNNNNANCCNTNTNNCTGNGGATTTTTGAAGACTAAAGAAGTTTTTACCCTAGATCT CTTCCAGAACAAAATANAANTTTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGG ATTTCTGANATTTAAAGATACTTTAAAATTCTCAAGAACAAAACTTTCAAAACCTCTGGTT GAAAGAAATATACCCAGTTCAATCNCTGCANTANAATTCCTTGNAGATAACAACTGGAT Sequence 4990

Sequence 4991

Sequence 4992

NGGTACAATATGACAGGCTGGGCATGGTGCTGTAGGAATACAGAACACACATTCTATATT
TGTTCTGGNGGGGCCTAAAGTTGCACATTTNAATCNTGAGGAAAGACAGGGAATTNGCTG
AAAAAGCTAATATCAAGTGTAAAGACCCTGGGTCAAAACAGAGTTACTTAGGAAGTCATA
GGTTCTTAAGTGCTGCTGGATCACGGAGTGCACTTAAAGAGTGCATTAAAGATCTATTAC
TGTGTAAATAGTGATTTAAATTCTCAACTAATTATTTGCTAATTAGGAACTTTNAAAAAA
AATCCCTGGCTTTGTCTACCGACTCAATTCACCTTTAACATATGTTGAATTTTTCTATAT
ACTATGGGGTCTTTGGGGCTATTCCTTTGGTGCTTTTGNGATTTTTTTAAAAAAATCTGTT
TTTGAACTANATTCAAATGGGNTTTCCTTAATGTAGCTTTATAATG
Sequence 4993

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGACCCAACATACAGGAGGTGTTGATTCTCA
TCCCTTGACTCAGGACATGTGTGTAATTGTTAATGTCATCACAAGACCTTTCTACAAATG
TCTTGTGACATACACCTTGGCCCAGCATCTGAGTTATTTGTCTCTTTTTCCTGGGCCCAG
TTCACAGTGCTGTATCACTGGACCCAGACCCTTGGTAATGTGATTGTATTCTGCCTTGAT
ACAGCCCATAAGGGTCATTGTGACATATCACAGGGTGTTGCACCCAGGTGGTTTGAGTCT
CCTCTTCTGCCTTGGTGCTACCCACAGGTGTATTGTGACATATTGCTGGGTCTGTTTAT
GAGAATCTTTTGCTTTTGCCCTAAACATATAGGCCATTGTAACATTGCTGAGTCCAACAC
CCAAGGTGATGTAACGCTTCATNCTGGACCTGTCTACAGAGGGGATTGTACCTGCCCGGG
CGGCCCGCTCNAAAAGGGCGAATTCCAGCACACTGGCGCCCG

Sequence 4994

CCCNGGNGCGGNCGCCCGGGCAGGNACNNTNNGNGTGACTCCACACCCACAGAAGGAGAGGGGATGAAGAAATCTGCCAGGAGGGTGCCTCCCGCCAGTATCTGATGAAGAGTGACTCA

TABLE 1A 361/599

Sequence 4995

Sequence 4996

CGACTCAAGCTCTACACGGGACGGACCGGCACTTTGTGCCCACAGGTGTCTACATT GTCAGGACTGTGACTGAGCCGTGGACGACCATGGCATTCAGCAAGGGCTGGAAGAAGAAGTTC TTCTACAACAAGAAAAACCGGCGAGTCCTTCTTTACACTCCCCCAGAGTCCATTGCCCCA TTCCATACCTGCTACTACACCCGGCTCTTCTGGGAGTGGGGAGATGGCTTCCATATGCGC GATTCCCAGAAGCCCCAGGATCCAGAAGCTGTCCAAGGAGGACGTCCTTTCATC CAGAGTCACAATCCTCTAGGCCCTTAGATTTCCACCTGATGAATGTCCTGTCATTCTTAA GGCAGGGCCCAGTGACTGGGTTCCTTCTGCCTCTTAGAAAGGCACTGGGACTGTTCTCCC TGGTCACAGGAGATGGGCTCCTCTCCATTCCCAAGGAGCTCAATTGGGACCTTAGAGGA CGTATCCTTGTGAACTCTGCTGCCTGAGAGCTTGACACCAGCAGCAGCAGCCTCCAAA GCAGCTGCTTCGGGGCAGGTCAGTGTTTAAGCACTTGCCANANTGGCAGGCTTTTGGGC CCAACCATTCCCATTGTAAATATGTGGGACTCAGCAGTGNTTCTGAGTTTCATTTNCTGG TCCCCAAGAACAGTCANCTTCTTGTTTTTGCCCAACGTTTTTTACTAAGGCTAGCCAAATT GTGGGAGCCCCTCCATNACCGGGCTGGGCCAAGGANCCCCCTGTNGNNCCAATCAAAANT TGTTTTTTGNGGGCTTT

Sequence 4997

Sequence 4998

Sequence 4999

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Sequence 5001

CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTGTTGAATAGAGACCACAT TCTGGTTGAAGACACTAAGCCATCTTATTTCAGCCTGAATCTAGTAATCAGAAGCTCACT AACTCTTGATGCCTCCTGCTTGCTAGTTAGATAACTCCAAAGATTAGAGAGTACCTCGGC CGCGACCACGCTAAGGG

Sequence 5002

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCATGTGCCAGAGGAACTTAAGCAGCCGTT
ACACAGAAAGTCCAAATCGCAGGCATATGCTATGATGCTGTCACTGTCTGACAAGGAGTC
CCTCCATTCTACATCCCACAGTTCTTCCAACGTGNGGCCACGTATGGCCAGGGCTGNGGC
GGAATCCAGTGCTATCCANTCCATAAGCCACGTNTGACGTTATCAAGGTTGACCAAGAGT
GGGACCAAGTCCAACAGTAAGCATGGCTCTTTCATATAGGACTATTTACANGACTGCTGA
GCAGAATGCCTTATAAACCTGCAGGGTCACTCATCTAAAGTCTAGCGACCTTAAACTGAA
TGATTTAAAAAAGAAANGAAAGGAAAAAAGAAACCTATTTATTCTCCGATATTTTNGTTT
TGCACAANCNAAAGGCANATGGCTGGACTTNTGGGAANGAATCAANCCAATGGCCAACTT
TAAANNGANTNCANNTGAAAAACCAAAA

Sequence 5004

Sequence 5005

Sequence 5006

TABLE 1A 363/599

Sequence 5007

GGAANTGGAAANATGGTNTAAATTGGATCCCTTGGTGANNCAACCCAGGAGGCCTATCTG CAACATGTAGGGTGTGGGGCGACAGTATTGTGGGGCTTCCATTCATCTTANTACCTCGGC CCGCNACCACGCTAAGGG

Sequence 5008

Sequence 5009

Sequence 5010

TABLE 1A 364/599

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTAGGTTCTGACTTAAAGATTAGAGATTGAA ACAAACAGAAAAAATGCAACCGCTTGCATTTCTTGCTAAAAGTAAACCAAAAGCAGTTT AATTTGAAGGATGTGCTATGGTAGCCGTGATTAGGTTTTAGGTCAAATAACCAATGGGCC CAACTCAATGTGAGACAGGGGGGGCCCTCATTAAGAAGAGTGGCTGAGAAGGAGGCAGCAT GACCAGTACCTGCCCGGGCGGCCGNTTCGAAAGGG

Sequence 5012

Sequence 5013

Sequence 5014

Sequence 5015

Sequence 5016

Sequence 5017

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Sequence 5018

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCTGGGTGACCTGGGGTAAGCTACTTAATCT
CTCTGAATTTCATTTTGTCATCAGCAAAATGGGCATAATAATACCTACTTTATAGGTTTG
TTTTATAGATTAAATATGGTAAGCCATGTTAAATATTCACTTTAGTGAATGGCTCATTGT
TAAGTCCTCAAAAGTAGTTGTTAACAATAATAAATGTATACATAAGTTATACATTTCCTT
AAGCAATACAAAATAGGTCACACTGAATGGAAACACCTCAAACCATCTGTGGTTTACCCC
TAGAGAAAATTCTGATTGCCAGACATAATATATATAGGGGCAGGTCCTTAACGTGTGGTCTC
CCACTCTCTCTAGGTGGTAGTCTCCTCTAGGGGGTGTGCAAAGTTACCTGGGGC
Sequence 5021

Sequence 5022

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGACCAACCATGGAGAAGATGAAGCAGGTGGT

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Sequence 5024

Sequence 5025

Sequence 5026

Sequence 5028

TABLE 1A 367/599

AAAATACTCAATTTCTTCTACTTCACTTATTTAAAACCC

Sequence 5029

Sequence 5030

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCATGATCTCAGCTCACTGCAACCTCTGC
CTCCCGGGTTCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCNCC
ACCATGCCCAGCTAATTTTTTTGTATTTTCAGTAAANATGGGGTTTNTNTATNTTGGCCA
GGCTGGTCTCAAACTCCTGACCTTGTGATCCTCCTGCCTCGGCCTNTCAAAGTGCTGGGA
TTACAGGCATGAGCCACCACTCCCGGCCTAAAAAANAAANATTTTCAACCCATTCGTAA
TATANCAGGATTTTTTTTAATTCCAGNGTATANAAGTCTAATTAANAANAGCAAATTTAT
TAATATTTCTAGTTAAATTTATATTTTTAGTCTAAGAGAAAAATATTAAAGCGTTGAATA
AATAAATGTTTAAAAACAAAAAAA

Sequence 5031

Sequence 5032

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACACACGTGCACATCAACACTAGGCTTCCTA
CGTCTGTTTGCTGAAAAGATCTAGAAATAATAACCAACCTAGTGGAATTGATCTTCCCTG
GTTTCCAGATTGTCATCTTGATACAACATTTTCCACAAAAGAAGCCAGGGTTTTTGGAGA
AAGACTGATTGTATGTCCAATGCAAGGATTTTAAAAGATGAGCCTGGTGGTGCATCCTGG
AAACCTAACCAGATAGTAAGAAAACTGACACTACTTTATGTCGGAAGTATTGAGGAACCA
ATATGAANAGGCTTCCAGTGGCCAAAGATGTGACAGTTAGAGCATCAGTGTGGATAATAA
CAGGAATGGATTGAAATGCATCGAATATGCTTGTCTCTCTGAGTCCATAATACTAAAAAA
TTAATTGGTCACCTTTGAAGGATAAATAGAAGCCCATATCATTGTTTTGAAAAAAA
ATAGAAGATATGAGCATTTATCCTGCCTTTTCC

Sequence 5034

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTGTCTGTTTTCAGGGGGTTAAATTTGGAGAATATCTTTAGAGCCTCAATCTGGCTATTTTGGAAGATTATTTTTGAAAATAATTTCAAGGAAAATACTAGATGTCTTTTAGATAANGCTTTTCAATTTGAACTCNGTATACATGSequence 5035

TABLE 1A 368/599

CCCNNCTNGGGGGGGNTANAAAAANANAANCCCNNNGNAAAAAAAAAGGG Sequence 5036

Sequence 5037

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATTGTCCTTTTACTTCCAGGTGCAGGGCT CCCATTCTTGTAGGACCAGTCTTTATGTATGAATAAGATTTCTGGGTATAGTATCC CTGGCTGGCAATATTTTTCTTTCAGTGCTTTGAATATATCATCCCATGTTCTCTTGGCTT TTAAGGTTACTGGTGAGAAACCCTCTGTTAGTCGAATGGGGGTTCCGTTATAGGTGACTA GACATTTTTCTTGCTGCTTTTAGAATTCTCTCTGTCTTTGACTTTTTAGAATTTAACTA TAATGTCTTATGGAGAATACTTTTTGGAATTGTGCCTGTTTGGGTATCTCTGAACTTCCT GTAACTGGATTTCTAAATCTCTTGCTAGACTTAAGAAGTTTTCAGCTATTATTTTGTTAA ATAGCATTTCTATCCCTTTTTTAACCTTGTGGGATCCANAAAATCAAACATTTATTTGCT TTATGATGTCCCATATGTCAAAATTAGCTTTT

Sequence 5039

TABLE 1A 369/599

Sequence 5042

Sequence 5041

CCCTTAGCGGCCGCCCGGGCAGGTACAAATTAGCCATTCATGCAACAGGCAGTGTTCAAA GAGGCTTCAAGTTCAAGGGAGCTCAGAGTTCCATTTTCCACCGAAAAGCTTTAAACAGAC TGAATATTAGTGGACATTTTTGAATAATTTTAAAACATAATTTTACACCCGATCTTAGCC AGAAGGTTGAGAAGTGATAACAAAAGTGTCAGTATTCTGGAGAGATATTCCTCAGTTGTT ATCACTTACCACAGTAACTAACATCGATGTTGGACATGCTGTTTTTATAACAACATTCTT TTTTTATATTATTCTTTAATTTTATAAGACTTCATAGGACACAGGCAATACAAATCTGCT ATGTTATTCCTTTTTTGTCTCTCCTTGTAATTTACAACCTGAAAATGTTGACTGTACCTCG GCCGCGACCACGCTAAGGG

Sequence 5043

CCCTTCGAGCGGCCGGGCAGGTACCGGGATGAGATTTAAGAAGGAGTGAAGAAA GTGGCAGAAAGACTATTTGAAGATATGATGGCCAGAATTTTCTTAAATGTTATGAAAAAC ATTGATCTGCCTAAGAAACTTGAAGTCCATGTGGTATAATTTAAAGAGATGCATATTTCA ACACATAGTAGTTGAACTGTTGAAAGACAAAGAAAAAAATGTGAAGACAGCAAGAGAAG AGCCACTCATCACACAAAAGTCTCCTCAAAAAGATGGCTGACTTCTTATCAAAAGCAGGG AGGCCAGAAGAAAAGTGGGATGATATATTCAGTACATACTATACAGTAACACTGCTGTTGG CCCTGGAGATAAAACAGTCACAGGTCAGCCCTTGCTCCCATAGGGCTTACACTCCAGTGG GGACACCCACAAAGCATGAAAATAAAAGCAGTAAAAATAAAACAGGGCATTATGTTACAG AGGGGTGGGGG

Sequence 5044

Sequence 5045

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Sequence 5048

Sequence 5049

Sequence 5050

Sequence 5051 -

CCCTTTCGAGCGGCCCCGGGCAGGTACATTTCATATGTATATATGGGGTGGGAGCATA ATTGCCATTCCCATGTGTCTCAAGGAAGCTTAATGAGGAAACTAATGAGTTAATATTAAC

TABLE 1A 371/599

TCTTCTGAAGAAAGCTGACATTTTAGGAGTATTAAGTCATCTGTCCGTTAATGAGCAGCA AGAATATATTATGATTGTATCACATGTTCCAGAAGAGCATTACCCCTTACATAGAAAGCT CCTTGGAGATTTCATGATGTTGGATGAACATCAGTTTATCCTTATACATCCCTATTGAGC TATAATTATCCTCATTTGATACTTGAGGGAAACTGAAGTGACTTGCTCCAAAGTGACTA Sequence 5052

Sequence 5053

Sequence 5054

Sequence 5055

Sequence 5056

TABLE 1A 372/599

Sequence 5057

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTCANTATTCACTAATGAAATTAATTGA GGCCTAGAATTACCATTTCCTATTTCATTCAACCATCCTATTCATAAGTAAAATAATGTT TAAAAATGAAC

Sequence 5058

Sequence 5059

Sequence 5060

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCTGCAGAACTGTGGACCAATCAAACCTCTT
TTCTTATAAATTACCTGGTCTTGGGGATTTCTTTATTTAATGTGAGAACGCATGCCCTTT
TGGATCTACTGTTCTACTTTTATAAAATTTATCCTGCAGAAATACACAAATACACAAAGA
TACATGTAAAAAAAGTAGTTTACTGCAGTACATAGTAGGTGTATATAACAATGGGATACA
TGAAATGTTACAAGATAGTATTTTGTATTTTCCCTTTTAAACTTTGTGTCTGTTACTTGTT
AAATTTTTACAAAAGTAAAACTAACAGAATAATGCTGGCCCAACACTTTGAGATGATAAC
AAGTCCATATAAGACAGACAAAATTGAACTTA

Sequence 5061

Sequence 5062

NCTCAAGCTGGCGACGAAGGGACCTCGCGTCGCCGCGCGGGTCTCGAGCAGCTGCCAGA GCCGCCGGACAGACCGCCCCCCCCGCGCGCTCATGGCCGAGAGTGACTGGGACACCGTGA CGGTGCTGCGCAAGAAGGGCCCCACGGCCGCACAGGCCAAGTCTAAGCAGGCCATCTTAG CAGCTCAGCGACGAGGAGAAGATGTGGAGACATCCAAAAAATGGGCTGCTGGCCAGAACA AGCAGCATTCCATCACTAAAAACACAGCCAAGCTAGACCGGGAGACAGAGGAGCAAAGGCC ACGACAGGGTGACCCTGGAGGTGGGCAAAGTGATCCAGCGGGGCCGGCAGAGCAAAGGCC TGACGCAGAAGGACCTGGCCACGAAAATCAATGAAAAGCCCGCAAGTCATCGCAGACTAT GAAAGTGGACGGGCCATTCCGAATAACCAGGTTTTGGGCAAAATTGAGAGAGCCATCGGC CTCAAGCTCCGGGGGA

Sequence 5063

TABLE 1A 373/599

TATATGACAAATNTTGATACTGCATCCACAACATTATTGGCGT

Sequence 5064

Sequence 5065

Sequence 5066

Sequence 5067

Sequence 5068

Sequence 5069

TABLE 1A 374/599

Sequence 5070

CCCTTTGCGGCCGCCCGGGCAGGTACTGTTCATAACCCCATTTTACAAAGAAAAAACTGA ATTTTAGGGAGTTTAATTGCTTGAACCAAGGCCACAGAATTGGTGAGTTGCAGGTAAAAT TTGAACCCATTTCTGCAGATGTCAAGTTGTGTTTTTTTTGTCTTTCCATCATGCTACTTGA

CACCCAAACCAAATGAAACTGGCANCCCGGATTCTTTCAGAGAGATGTTGTAAAAGAGTT CCCCCAACAACCTCACCTGTTAAACCCCCA

Sequence 5072

Sequence 5073

Sequence 5074

Sequence 5075

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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTACAATCTTCTATAAAATTCTGCTTTGTC
TACAACACAGTCCTGACTCTAGCTTAAGCACAAAAGGATTTAGTATGAACCAATTCATAC
ATTTAATACTTATTAAACTCCTGACATGCCAGGCATTGTTGTAGGTGCTGGTAATAAAGC
AGTTTTAAAAAGTCCTTATTCTCTTGAAGTTTACATTCTAGTGGGGTAAAAGGGAATCAA
AAGATGTTGGTAAGAGAAGTGAGAGAGGAATGCTATTTTTTTATAGCTTTGTCTACGAAA
GCCTCTCTAATTTTGTGACATTTGAGCAAAGACCTGAAGGTATTAACATCATTTGCTCCA
AACTGACCAAACTGTTCTTATTACTTATAGGTTTCAGGAGATGTGTTACAAGGCTTATCT
AGCTATTCGACAGCATGCCAATCTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGG
AATGCCCCGCGTACCTGCCCGGGCGCCGCTCGAAAGGGCGAATT
Sequence 5077

Sequence 5079

Sequence 5080

Sequence 5081

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGTCTGCCAGACTTATAGGCATTCTTTCC

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Sequence 5082

Sequence 5083

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGATGGGGTTGGGTCATACAGTTGTGTGCAT
TCGTCAAAACCCATTGAATATTATACGTAAGGTTTATGCAATTTATTATATGTAAGGTTT
ATCTCAAGGAAAAAAGTTTTGAAAACTGTGATTTTGATGCAGGTGATCTGAGCACCACAC
TTGAAAACTACTGGGTTTGAGTAACTTCAGGAATAGTTCTTCCATAAAAGCATAATAATT
CAGAGATTACTAATGTAATCCTTTGGCATTCAAAAACTAAGGGAGCCAAAATATTAATGG
AGCCAGGTGCAGTGGCTCCAAGCACTTTNGGAAGACTGCCCGGGCNGNCGCTNGAAAGGG
CGAA

Sequence 5085

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCTTTTTGGTTAATATAGAGTTAT
AGGTGTTTTTAAGCCACTAAGTGTCATTACTGTTACATGCATCAGTTAGCCCTACTTGGA
TTAGCAAGATTATGCTTTCATAAACTATTCTTTCTCTAAATTAATATTTATATTTTA
GAAGTTGACATTCTAAATCAAATTGTGTTTTTTTCCTTTTGCAGGTGGATAATTACTGTA
CCTCGGCCGCGACCACGCTAAGGG

Sequence 5087

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGAAACTATGGAAACCTACATATG TAGCTTGTAAATGGGAGGGAATCAATACCATCTAGAATTGAAACGGTTTACTTTACCTAA AATATTTATAGAATTTTTTTATCTATAAACAGCTGCAAGGAAATATTTTTAAAATTAAAA AGAAAGAGAAAAGTAAACTATGCCTCAATATTAAAATTTTAACCAGAAAACTCTCAACTT

TABLE 1A 377/599

CTTGGAAAACAAAACCAACCAAACAAAAACTCCATTAGACAAATAAGTTAAAAGAGAG GAACATTTGCCTCAAAAATTTAGAAAAGAACACCAAAGTTATAAAACAGCAAATAATAAA GATAAGATCAAAAATAAAGAATTTACAAAAAAAAGAACAAAGTACCTCGGCCGCGACCACG CTAAGGG

Sequence 5088

Sequence 5089

Sequence 5092

Sequence 5093

Sequence 5094

TABLE 1A 378/599

CTGAGCTTATGGCAGAGATGTTGGAAATATCAGACCTTGAATTTTTAAGACTATGATTAA TATGCAAAGGGTTTTAATGGAAAGTGAGAACAATATGCANGAACAGATAGGTAATATAAG CAGAGAAATGGAAACACTAAGAAAGAATCAAAAGAAAATGCTAGAAATCAAAAACATC Sequence 5095

Sequence 5096

Sequence 5097

Sequence 5099

TABLE 1A 379/599

nnnnnnnnnnnnnnnAGTGAGCTNACTCACATTTAATTGCGTTGGCGCTCACTGGCCCG CTTTCCAGTCCGGGAAACCTGTCCGTGCCAAGCTGCATTAATGAA Sequence 5101

Sequence 5103

Sequence 5104

Sequence 5105

Sequence 5106

TABLE 1A 380/599

Sequence 5107

AGCATCAAGAAGCGTCGGGGAGCGCAGGCCCAGCAGCCATGGCGGTGGAAGGAGGAATGA AGTGTGTCAAGTTTTTGCTCTACGTTCTCCTACTGGCCTTTTGCGCCTGCNCAGNGGGAT TGATTGCCATTGGCGTAACAGTTCAGGTTGTCTTGAAGCAGGCCATTACCCACGAGACTA CTGC

Sequence 5108

Sequence 5109

Sequence 5110

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGCTCTTTACTACTCTAGTAACACTAGATAA
TAAGCACTTAAATGCTGAGTGTTTGTCAGTTTTAAAATTAGAGAAAGAGACAAATTGTTT
TCTGATCTACTTGCTTAATAAATTATTTTTTGCCAACTAATTTTTAGGTTTACTTGGTAA
ATTTAAAGGTAGTTTAAAATGTATATTTTAAATAACTTTTCTCTATAATTGAAGAAAATAA
TTTATCTTGAGAGAATTTTACTTTAAACAGTTGCTTTAGAGTCTATCTTGTAAAGTATTC
TATTTTCAAATAAAGCCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGC
CGAGGCAGGCAGATTACCTGAGGTCGGGAGTTTGAGACCAGACTGACCAACAAGGAGAAA
CCCCATCTCTACTAAAAAATACAAAATTAGCTGGGTATGGTGGCGCATGCTACCAGCTACT
CGGGANGCTGAGGCAGGAGAATCGCTTGGACCCAGGANGTNGAAAGTTGCGGT
Sequence 5111

CTGCAGAATTCGCCCTTCGNGCGGCCGCCCGGGCAGGTACTTTNTTACATAATGTCTCCAGAGAGGTTTCCTTNTGTCTAGCANACAAAGGTAATGGTAGCTGATCACCTTAACAAAATCAGGAGCTGTTTGAAGTTGANACTTGGTTGTAGCTCTGGGTAAAGCTCTAGCTACTTATGTCCAAGGGTATATAGCCCTCTAGGATTTTTAACTGAGAGCTTGGTATTCATTGGGGCTTCTCCTTCTGGCAAGTTCATAACTCTAATCTGTATCTTGTGAAGACTGCCAAAGAGTCTGTTCTGCTTTTCAAAGGCTTTCCAATGAGGNTTTTNACCTCTCATTCTGCAGAGCCCCNGGGAATTGGCAAATATCCCAACAGGATAACTGGCTGGTTGCATGGANGTTCCCCTGGTTTTCCACAAAAGCCTCTGCTGATTTCTTGTCCCCAGTTANGGGCTTTCCCGNCNACCATAAANGTNTCTGGNTTCTCAAATCCCCTGCCC

Sequence 5112

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Sequence 5113

ACTITTAGTAGAGACAGGGTTTCACCATGTTAGGCAGGATGGTCTCGATCTCCTGACCTT GTGATCCACCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACAGCGCCC GGCCTAGTCAGCCCAGTATCTTATAGCTGTTGACGACATTCTGGGGATATGAATGTAGCT TACAAACGCTAGTATTTCTACAGAAAGCAGAAATAATTTAACTGTCCGTTTTCACATTTA TATTTAATAAAAT

Sequence 5114

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTCTTCTGTTGNATTAACTTCTTTCCT TTGTGGTATCTTGTATCCTGTTTAAAAACTAAATGAAGGGAACCACATTAGGGCCCATGC CAGCATCCCAGTGAAGTTCGTCCAGCTCCAGTTAGGTGGATTCTGGAGTTCCGGAGAGGG TTTAAAGTTTGGCTGAAATAGCACCTCAAGTGGGGTTTAAGTTTTATTTTTACCTGCGGG CATNATGGGCCGAT

Sequence 5115

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTATATGCTCATATGCTCCTGTAG
TCGTTAGTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT
AAAATAATTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATGATTTCTCTT
TCTCTTTTGTTTCCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT
CTGTTTCAAATCTCCTTTTCTCATCATTGGCTGGAACACAGTTGAAAAAATATTAAACTG
ATTTTGTGACGATGAATTTAGGAATTCCAGTTAGCTAAGGATTAGAAAAACTGATTTTCA
GAGGCATACTCTGATCCAGAATGGGGCTTTAATATTGNATTATACTGAAATATAAAGCAG
AGGTCTACTAAAATCTAGAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5116

Sequence 5117

Sequence 5118

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Sequence 5119

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGAATATACTGATGAAAATCAACATCAATA
TATTTTGGCTGTGCCTGTGTTAAACCTAAATCTTCAACATAATAAGATATTTGTGAACCA
AGACAGCAACTCTGGAAAGTGGCTTCTAACTCGGCGCATTTTCTTAGTGGATGCAGTAAG
TGGACGAGAAAATGACTTAGGAACTCAGCCAAGAGTAATTCGAGTTGCTACTCAAATATC
ACTGAGTGTCCACCTTGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5120

Sequence 5121

Sequence 5123



TABLE 1A 383/599

Sequence 5124

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGGGTGAATGGAATGGGCAGTGGTCGCC AGGATGGCCTCCCACCCAGCTCAGAGACCTGGTGAGGACCACCCAGAAGGGTTGTGCANA GGGTTAGAGGCCACCCAGAAGGGTTGTGCANA GGGTTAGAGGCCACACAGAGGGGCACTCATGTTTTTGTGGGGGGATGCACAGCTCATTAAA CAGTCACCAGTCATGGGAGGGCTGGTCAGGGGGCTAGGGGACTTGCTCACAGTCGTGAT GGCTCTGTGTTATTTGGGGGTGACAGTAATTATGGAGCTGGAGTGCTCCTCGACAAAGAC AGACAGAGCTCCTCGCAGAGGGATGGTTTCCATGGCAATAGCATCAGAATCACCAGAACCAG AGAGTGGATGACTGTTCAGCCCTCAAAGTGGCTAAGTCCATAGTGAGGGAGCCATT TCTACCGGGTGCAGCATCAGAACCATTAACAGCTCAGGG

Sequence 5125

Sequence 5126

Sequence 5127

Sequence 5128

TABLE 1A 304/599

Sequence 5129

Sequence 5130

Sequence 5131

Sequence 5132

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTTATGATTAAAAACAAATTAAATT
TTAAAACACCTGAAGATATATTAGAAGAAATTGTGCACCCTCCACAAAACATACAAAGTT
TAAAAGTTTGGATCTTTTTCTCAGCAGGTATCANTTGTAAATAATGAATTAGGGGCCAAA
ATGCAAAACGAAAAATGAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAACTGTAAT
TGAATATTGTGGCTTCATATGTATTATTTTATATTGNACCTGCCCGGGCGGCCGCTCNAA
AGGGCNAATT

Sequence 5133

TABLE 1A 385/599

Sequence 5136

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATAGAATTATGAATATACAGTAACCTCATTG
AGATTAATCATAAAATCAACACTAGATTCCAATATTAACTGTTTATACTGCATTTTGTTT
GTTCCCGCGCACCAACTTTGTCATGCCTTAAGCAGGTTAGTTCTTTTTACTGTGTCTTAA
ANNNTTTTTCCTAGTGAGTAACATGGTATTTTTTAATAATCCCGCGTACCTGCCCGGGCG
GCCAAAGGG

Sequence 5138

TABLE 1A 386/599

Sequence 5141

Sequence 5142

CCCTTTCGAGCGGCCGGCCGGGCAGGTACATTTCTCACTATTGTGAATCTTCATGTGTTC
CCTATGATTCTTGATTTAGCTTAAAAGAAAACGTAAGACATGGTTTCATTAGCTTGAACC
TTATCTTTGTAAAGCCATGCATTTACCTTGTTTATTCCTGGTTATGTTTTTATCTCACAG
CCTATTCAAAAAGATTTTGAATAATTATTTCAAAACTTTTTTGCAACTTTAATAATCTTAA
ATAACCTTAAAATATTTAGGTAAATACGGCATCATCTGCATGGAGGATTTGATTCATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAA

Sequence 5146

NCCCTTTCNAGCGGCCGCCCGGGCAGGTACGCGGGGTTTATCTCTANTGTCACAAACAGC TGTGCTTGTTNGAGTGAGACAACCACCATCANGAAAAGACTCANGGCTGGCAGCTGTAAC TAAATTTAATTTTCACCTACATTTCNCAGTTTATTTATGGTGANAAGTGTTNCTATGCAA GCATTCTTTNANTGAACCAAGAAAANTAGNCATATCCANGCTCTGACAAANAACTTANNC TNTGGGATTTTGTTANAGGNAAAATTAAATAANGAATTTATTCC

TABLE 1A 387/599

Sequence 5147

Sequence 5148

CCCTTAGCGTGGTCGCGGCTCGAGGTACNCGGGGAAGGCCAGGCATGGTGGCTCACCGCC TGTGATCTCAGGATTTTAAGAGGCTGAGGCAGGCGGATCACCTNAGGTCAGGAGTGAAAC TGGCCAACACGGTGAAACCCTGTGTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGG CAGGTGCCTGTAATCNCAACTACTCCNCGAGGCTGAGGCANGAGAATTNGCTTTAAACCC CGNGAGGCGGATGTTNCATGTGTAGCCGGANNATGGCACACATTNCNNCANTTTTCAAGC CCTGTGGCTTACAANGTAGTGGAAACNTNCCGTCCTCAAATAATCAAAAANTTATAAACA AATNAAAANTTATTATNAAANCACGTTTATTTTGG

Sequence 5149

Sequence 5150

Sequence 5151

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTGCTTTGTGTTCAGTCCTTTTGGA ACACGTAGCTTCCAGCTTAAGGGTAGAGAAATATATACCTAAAATCATCAATACATGAAA GAAAAAGGATGGAAACTATGTCCTCAGTTTTACTTCTACCAAAACATCCCTGTATGTGT TGCATGTATGTTGGCGTGTGTGTGTGCATGCATATTAAGTAAATGTGTGTTTGCATGT GTGTGTTGGGGA

Sequence 5153

TABLE 1A 388/599

Sequence 5154

Sequence 5156

GCGCCGAGGTACTTCAAACACGACTTAGCAAGATCNGGGGACAGACAGACAGATGGTATG
AAACTTNNATTTGGAGAAGAAAACCTTCCAAAAGAGGGAAACAGAGTTTTTATCAATCCAT
TCTCAGATGACCAATTTGGAAGACATTGATGTCAATCATAAAAGCAAGTTATCTTCTNTG
CAAGATCTNGAAAAAACTAAACAGCTTGAAGAACAAGACCACTTATTAGAAGATTATCAG
AAAAAGAAAGAAGACTCCACAATGCAAATTAGTTTCTTGCAAGAGAAAATTAAAGTNTAT
GAAATGGAACAAGATAAAAAAGTAGAAAACTCAAATAAAGAAGAAATACAGGAAANGGAG
ACANTCATTGAAGAATTATTTAANANGGACGNANNAANAAANGTNCCTTGCCCGGGCGGC
CNGTTCGAAAGGGCGA

Sequence 5159

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Sequence 5160

Sequence 5161

Sequence 5162

Sequence 5163

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGAAGTAAGATTCTTAGGAGCTTTTCTTA
TCACACAAGATGCCTGAATCGAATGTGAGAATTGAAGGCATTTCTTCTGCATAAACAAAG
AATTCTACCTGCTGGACAGAAACCTGGAAAGTTCTTTGGAATTCGCTGAATTACAGTTTA
GTATGTCCTGATTACAGAGTGACAATATTTATCAAGCCTTTGTTATATTGGATTATCTTC
TCTCTTAAAATACAACTGTATTATAATTGAAATGACAGCCCAAAATTGGATGGTTTACCA
AAACCAATGAAAGGGGATTTCACACATCAATTTTTATTTCTGTTTTGAAGAGCACATGCT
ATATAATAATTGCTAGTAGCAACTGCAGTAAAACANGTGGATAAGTTATTTTCTCTGAAA
AGATCCAGTCCTAGAGCAGGATTCTTCGATCATTCATGGCAGAAGTGAAAAAAAGGTTGGT
ATGGGTTCTTGGCCAAAATAACTCAGTTCTTAAAAAATTCTTAAAAAATGATCCGTAAACC
CATTTATCCTTTTAAA

Sequence 5164

TABLE 1A 390/599

CCAAGCTTGGCCGTAANCAANGGTCATAAGCTGTTTCCTGTGTGAAAATTGGTAATTCGC TCACAATTNCACACNACATTACGAGCCTGGAAGCATAAAAGTGTNAAAGCCCTCCGCTGC TCTAATGGNCGGNCCTTTATTTTANATTANCCCCCTNCCCTCCCCCCNCCCC

Sequence 5165

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCTTCAGGACAGCCAGGTTGGCTTCCAGAT CATAGGCATTTTCCTTGGCCTGCGTCTCTACATAGCGCTCCAGGGTGGCCAGGTTCTCAG GATTGTACGCGGGTTATCAGAAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTC CACACTGAGAAACATTCAGGGTCTATTTGCTCCGCTAAAATTACAGATGGAATTCAAGGC AGTGCAGCAGGTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTTTCACTGGATGTTTT GAGGGGTAATGATGATGAGACTATTGGATTTGAGGATATCTTAATGATCCATCACAAAGCGA AGTCATGGGAGAGCCACACTTGATGGTGGAATATAAACTTGGTTTACTGTAATAGTGTGC TGTTCATGGAAACCGAGGGCTGCATCTTGTTTATAGTCATCTTTGTNCCTCGGCCGGGAC CACCGCTAAGG

Sequence 5166

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTATCTGTGTTTTCGGCTAACAAGC GGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGAGGGGACTTGGGGTTCACCT TGAGAGGGAACGCCCCCGTTCAGGTTCACTTCCTGGATCCTTACTGCTCTGCCTCGGTGG CAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGGATTGTAAGTGGCTGA CGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGCGAGGACCGAGATCGAGATGAAA GTCGTGAGCCTCCTGGACTCCACATCATCCATGCATAATAAGAGTGCCACATACTCCGTG GGAATGCAGAAAACGTACCTCGGCCGCGACCACCGCTAAGG

TTTTTAAAAAAA Sequence 5168

Sequence 5169

Sequence 5170

CCCTTTGAGCGGCCCGGGCAGGTACCAGATGGGAGGGATTCCTTGCACGTAATCTTG AGCATCCACCTGCTTCAGCAGGTTCAACACCAGGTGCAAAGCCATCCAGGTGTGCCCAAC

TABLE 1A 391/599

AGCAATTAGCTTGGTATTATTCAGTAAAACTTTCAGTTAAGATTTCAATTGACAGTTTGG GGAAGGGATGTGCTGGCTATTAGTTAAATGACTTTAGAGGGGGGGTTCATTTGTCTCTGTC TCACCCAATCCTGAAACTGCAGTGTAACCAAGAAAAAGCCAAAGAGAAGCACTTCCCTTT CTATCCTCGTCACTAGTAACTGGAGGTTTTTCCAAAATTAAAAATCTGTGTCTACATCAT GGTCCATATTTTAGACCCTGTCATGGAAATAAGTGCTCAGGTAAACTAATATTTTTCTTT CACCCCCAGAACTAGAGCTTTCCTAGCTGTAAGCCTTATAAACCAAGATGCAGGTACCTC GGCCGCGACCACGCTAAGGG

Sequence 5171

Sequence 5172

TTCNCCCAATTCCCCTTCCACGCCCCTTGANNTATCTTCTNNTGGGGAAGAAGNGGNCTC CNCCAAAANACAAAATATTTTTTTTTTTTTTTATATNGCNTCCCGTNCCTNNNGGCCCTCC NCNCCACTNCGCCCACACCTTNCATNNNNACATAATCNNCTNTCCATCTCNGACNGAGAN ACCCATATATCTNATTTGNCAATNAANGACTCCTAANNATANCCCTCTTAGATTAACTAA CTGCGTNAGANGGAGTCTTAAAAGGANNNCCTCNNNNAAATAAATTCAAGGGTAACAANT NATTAATCCTAAGNATCTTTAATATNCTTNGATCTGGGTAAACAATTTTCATAANATNAA TTTCGTNGAATNTTTGAGTTTAAAAATAATGTCNCTGCTCTAAATTTCACCCATGGTGNT AAAAATAAAAAAGGCACATCCATAGGTATTTTAAGTCCATATAAAAACCC Sequence 5173

Sequence 5174

TABLE 1A 392/599

Sequence 5176

Sequence 5177

Sequence 5178

GTGTGATGGATATCTGCANAATTCGCCCTTAGCGNGGTCGCGGCCGAGGTACCTAGGGTT
ACAGGTCTAGAAAGTGCAGAGCCATCCCTACCTAGAAGAAATAGATGGGAAGAAACTG
AAAGAAAGAATTCCTCAAGCACTGAAGTCAGGAAAATCCCCGTAGGCACTGTATTAGTTG
TTCCATTTATCCCAGCACTCCACTTGTGGATGAAGGAGTTGTATAGAAAGGAGATGAGAA
AATGGCAGGAGTGGAAGCAGCCAAGAAGAGATCGATGACTGAAGATCTCCTTCACCTTCA
GGACTGTCTCAAGGGGTTATTTCACCTCTACTCATGAGGATGGCCAGTTTTTCTGTCTTT
TATCTTTAGACCCATATATAATCAGTTCAGAGCACAAATCAAAATAAACTGGCCTAAATA
ACTGAATTCTAGGAAGCAAAGCTACATCTTTTTTCATATGCCAAAGCTTCTGTTTCCTCA
TGTTGGTCCTACTTTTTAAATAAATAGGCTCTCAACATCTTANGAACTAGATGGGTCC
CATCTGGGTAGGAACCTGCTATAANTTTTAANAATCACTCTTTGTAATTCTTACCCTCACC
TTAAAAATNTTAGGAAACNCCAGTAANTTGAAAAAGACNGGGGAGAACCTCGTCTTGCAN
GGTTTTGGGCAGTGNAAATTTGNCTTTCCAGNGAATTGCTTTTTTTTAAATTGGCCTN
AAATCNAAAAAGCTTTTNCATTGGNNGGAGACCTTCTTTTCAAATGAACNCGNGTTGGAA
TTCNACCCCTCTAAATTTTTTTGCATTTTNCCTGTTTTTTGGGGAA

Sequence 5180

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTTTATTGAGGGTCAGCTGTGTGGACTT GGCTAACGGCCTGCATGACTAACCTTAACCTCTAACCCCTTCAGATGTTGAACTGATGCT TTGTGGCCCAAGGTCCTCACTACAAATAACATCATTAGCATACAATATCTAGTGTGGTCC GAGATCTGCAGGTAAACGTAGACATTCTTATTAGTCAGGAAATTCCAAGGGTAGAGGATA TTTCCTGGGAGATAGGGTGAAGGGCCAGGGTAGGGGATATTTCCTGGGAGATCGGGTGAA GGGCCATACTTTTCTTTGAGCAAGAATCATCCTTTATAGCATAGGCCTGATATGAAACAG

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CTAATTAGAAACACAGCTGAGATTTGAACCCAGGCATTCAGACCTCAGGTGCTTAACCTT ATGTAACAGCCCATTTGCCCTCCACCACCACAGTGTCTCCTCCTATGCTCATTTGACAG TA

Sequence 5181

Sequence 5182

Sequence 5184

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCAATAATCACCTCTGACTTTCAGATTTAAA
TTCAGTGCAATTGACAAATGCATCACTAAAGGAAAATGCAGCTTAAAAGATACTCAAAAC
ATTTGTGTCTATTCCCGGGAGCACATTTTAAAATTATTGCACAGATTTTTTTAATTTTTA
TTTATTTTTTTAAACAATAACAGAGGTCAACCACAGATGTGGACCTCCAGCAATAAAAG
CAGGAATTCAAGTGCCAGATACTCAGCATATTAGGTTTCCTACGTAAGTCACAGGGTAAT
ATGTTCTAAATATCTCTAATGTGATCCAAAACCCTAAAAAGAGCTGGCACAAAACCATCG
TGAATGACTGCCTCTCTTGATGTAAATTTTTAAAAATATTATTACAGTATCATAGTCCCC
ACTAACAACAA

Sequence 5185

CCCTTAGCGTGGNCGCGGCCGAGGTACTCTGACAAATGCTCTTCAGACCTCTCACCATCA
GACACCAGGGGAAGGAGCCCTTAAACCGGAGAATTATAATTCAACAGAAACTGTCATTT
CCCCAGACATCATGGGAGTATTACATGCAAAAACCAGCCCTGCGGTGAGTGGGCTTAAAC
TCAAACTTAATTCTTCAATACAGGACTCTTTACTGATTTGTTCTAAGTTTTCAGTGATGA
ACCCAAATAAGATTGAGCTTCAAGAGACAGGGTTCTGAGAATCTTTGGAGTCATTCTGTC
CACTATTCCTAAGAGAATCAATGTAGATAACAGTCCCAAAACCTCAACAGATTGTTTAAA
AGTGAACAGATGTTATCTAAAATATCAGAATCAAAATTATGTGTAAAACATATCCGGGTG
TATTGTGTATGCACCTATACATGTTTATATATGTATATTCTTTTTTTCTCTGCTCAA

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Sequence 5186

Sequence 5187

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGCGTGTATCAGGAAACACTTNACGAAN GGGCAANAGTGGNTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAAAGTT GACAAGGANGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCANATAAAACAAAAAGTG GGTTCTCTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACANAGCAAACANNCANAGATG ANAGAATGATGAGTCAGTAAGAGGGGGGCANAGCAGCCNCTCCGTGAAAAAAAGATGAAGACT AATGTGAAAGATGAACTCTGAGGGGGGGTGCAGATGACTNTGCTGAANGAGGGGGNACC TACTGGGATGATGATAATGAAATATCGGGGGGGATGNACCNGCTGTAGTTGATCAAAG GATGGATGAAAAAGAGGCTTGATTGAATNGANAAGGATGGACNAGANACCCGCNCCAATG GNCGAAGGATTGACNTCTTTAAAGCNACCATAGNNGNNNGTTTTAGAAANTTCTTTAATT CCCCATTTAAT

Sequence 5188

GCGANTTGGGCCCTCTANNGCTGCTCGNCGGCCGCCATGTGATGGNTATCTGCAGATTCG
CCCTTTCGACGGCCGCCCGGGCAGGTACGAGGAAATGAGCTTGACAAAGTGGTCACTGAG
GGCAATGGCAGCCCCAGCATCGAAAGTGGAAGGTGAGTGTCACTGTTAAAGTCAGAGGA
AACAACCTGGTGTTCAGTGTAGCCCAAGATGCCCTTGAGGGCCCTCTGACGCCTGCTTC
ACCACCTTTTTGATGTCATCATATTTGGCAGGTTTCTCCAGATGGCAGGTCAGGTCCACA
ACCAACACGTTTGCAGAAGGACACGGAAGGCCATGCTAGTGAGCTTCCTGTTCAGCTCGG
GGATGGCCTTGCCCACAGCCTTGGCAACACCAGTAGATGCAGGGATGATGTTCTGGAGAG
CCCCACAGACATATGCCACAGTTTCCCACAGAGGCCATCGANTCTTCTGGGCANGAGTGG
CANCATGGATTGGGGTCACAAGTCCTTCCACAATGCCCAANTTGTCATGGATGGGCTTGG
C

Sequence 5189

Sequence 5190

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Sequence 5191

Sequence 5192

CCCTTCGGCCGNCCGGGCAGGTACATTCCTTATGAGGGCTTTCTTCCTCAGTGTTCTCTT
TAGAGGGCTATTGCTACTGGACTTTCTGCAATGTCTTTGGTGTGCCCTCAGAGCCTGCAA
CAAGTGTATTTGGATATACTCTATTTGTAAAGTTTAGGCCTCTAAGAAGGCCACAATGAA
GCAACTAAAAATCTGATGATTAAGGGAGTCAATCAANCTGATGCCATTTTTAAGTTTA
Sequence 5193

CCCTTAGCGTGGTCGCGGCCGAGGTACATNITNACATAACATACTGAGAATGCGTTNNTG
TATCAGAGAATCATTTCTGAGAATCATTTCTGTAGTATTCCTGCCCAAGTGCCTAACCTG
AATCTAATAATGAAGAAACTTCAGACNAGTGAAAATTGAGGAGCATTCTATGATGCAGCT
ANCCTCTGCTCTATAAAAAGTCNTAAAACACANGGAAAACTAANAAATCTTCAAGGTTAA
AGGAGACTAAAACCCCATGACATCTAGATGCATGGTAATANATTATAATATGATGATAAT
AGATCCTTGGATTACCATTATGGTAATAAGANCCTTGGCTCAGGGAAAAAAAAATTCACAA
AGGGTGTTTTGGGAGACAGTTGACAAAATTTGAAAATGGATTGTATGTTACATAATATTA
TATTA

Sequence 5194

CTGCCAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTAACNCTATGACTACAGTNTTG GTGCCACTGNCTTCATGCATGCTAAGGCATCAGCAGTTTTCCCATCTTGCTTTTGCACCA

TABLE 1A 396/599

TCAGGACCAAATGACAACAAATTTGTGCCATAATGTATTTTTNTGAAAATAGTTTTAAAC
TCTNGNCCACAACAAGGGTCTCAAGAAAGGAAAATCCCTGACCCACAATGGTGGGCTCAC
TAATCCATTTGCAGAAAAAATGGNAGCTGGCTTGNGCTACNAGGNATTTCNTTTATNGGA
AAAATTGATTTTANGAATTNTNCTCCCAACANGGANAANGAAAACTTTCCCTTTAGTNTN
TGCAGGCNTNTTCTGTNAANAAAGAAACGGGNNTTGNTTTTTTTANNAAAGGNAAAA
Sequence 5197

Sequence 5198

TGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTTAGGCGTTCATAAAAATACAG CAGGGCAAGAGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGC GACAAAGACTTGAAAAAGGTGGAGAAGCAAACCTTGTGGGTATTTAGGGTAGCAGTAGTC CAGGCAAGGGGAACAACTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTTAA GAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCAAAGTGGTAGAA GGTGAGATCAAAGAGGTAATGAGGCCATTGT

Sequence 5199

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTTCCTCATACTGACTATAGTCATCCACCT CCATTCGAGACTCCAAGAGAGAAAGAGGATCACTGCAGCACCCCATTTTCATGAAGCC CCTCTGTATAAGACCCCCTATTTTCCTCATCTCGTTTTAGCTGGATTTTTAATTTTGTAG AACTACTGCCTGATCCTGAGTTAAATCCATTATTAAGCTTTGCCACATAGAGATTGTTAT CGTTGTCATGGTCTTTGCTTAACTTGATGCTTATTTTTGGAAGAGTTCATTCCATCATTCT CTTGGTCATTNGTTTTGCTGCTGCTATCATGACGCCTACGAAGAGTCAATTTGGGAATCC CAGAGTTATTTTCTAGGATTAACTGTGCATCATACCTTGTGATTCGCCTCTTCTTTTTAC TTTTTGCAG

Sequence 5200

Sequence 5201

CCCTTANCGTGGTCGCGGCCGAGGTACGCGGGTGCCTGACTTTGGGAGGCTGAGATGGGTGGATCACGAGGTCAGGAGTCAAGACCAGCCTGGCCAAGATGGTGAAATCCTGTCTCTAC TAAAAATACAAAAATTATCCAGGTGTGGTGGCGGGTGCCTGTAATCCCAGATACTCGGGA GNNNGAGGCAGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCANTGAGCTGAGATTGCA CCACCGCACTCTAGCCTGGGCCAGTGAGTGAGACTCTGTCTCATANANNAAAANAAAN ANANAANTTTCTTCCCNGGGGGCCCTTTAAAGGGGGAAATTCCCCCNNNCNGGGGGNN GAAAATANNGGNCNNCGCTNNGGNNNNAAANNNGGGGNAAAAANTNGGACCCNCNNNTTG AAATANAAAAAACNTNATGGCNTGATTNAATGCNAATTNNNCTNNCNTTNAANNNAATN TNNCTCTTGGGNTT

Sequence 5202

TABLE 1A 397/599

AATATAAAAAATTANCCAGGTGTGGTGGCACGCATCTATCAGAGTCCCAGCTACTCAAGA GGCTGAGGCAGGANAATCGCTTGAACCTNGGAGGTGGAGGTTGCACTNAACTGAGATTGT GCCACTGCCTTNCNCCTGGGGTGACAGAATGAGACTCCTCTTNAAAATAATTNNTTAATC ATAATAATNAAGTNAAAAAAATTAAAAAAAAAAAGTTAATCANAAGCTTAAAGTAAAAGT T

Sequence 5203

Sequence 5205

Sequence 5206

Sequence 5207

TABLE 1A 398/599

CACATGCACGCTTTTTAATTACATAATGTATATGTACCTCGGCCGCGACCACNCTAAGGGCGAATTCCANCCACTGGCGGCCGTAC

Sequence 5208

Sequence 5209

Sequence 5210

Sequence 5211

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Sequence 5213

Sequence 5214

Sequence 5215

Sequence 5216

TABLE 1A 40\7599

GATAATTTTTGTATTTTTAGTAGAGACAGTGTTTCACTATGTTGGCTGGGCTGGTCTCGA ACTCCTGCCCTCAGGTGATCCGCCTCCCCAAAGTGCTGGGATTACTGGCGT GAGCCACTGCTGCCAGCCGGCAGTTGAATTTTAAGACTGTGGAGCTGAGCCAGGTA GATGAAACAAGATTTCTTGATGTTCCTTCCAGGTTTATTACCCATGTATCTTTAGAAGAT GATTTTTTTT

Sequence 5218

Sequence 5219

Sequence 5220

Sequence 5221



TABLE 1A 401/599

NNNNNNNAANNNNNGTGCCGGCCGCTAGAACTAAGTCCTAGAGAAAAAAAC Sequence 5223

CCCTTAGCGGCCGCCCGGGCAGGTACTTTATAATTCTAAAACTTCACTTTTGTCCTTA
AATCAATATATACGGATTTCATTGTTCAATAAATTACCATCTTTAACTAAAAATAAGTA
AATCAAAGAGCATATTTGGAGAAACTAAGAGCTGTTAACTGTTTGGAGGGTAAAAGAATA
CTTTTCTCGAAATTTTTTTGAAGAAAAATCTAAAAGCCCTCTATGTTGAGTTAATACACC
TTCTGACCCCCATCATCAGTGGCATTATTCTTCCAAGGGACTCTTATCTCTAAGCAATGG
TGAAGTTCTGGATTCATTATGGATCTCATGGCACCAAACCAACTGGCACTGAAGTTAAGT
TAATATACTCCAGCGAGATCACCTGTGGGTCAAGGATGGCCCAGAGAATCTTGGAAAATC
CATTTATATTGAGCAAAGATCTGAATCACCTTCAATCANGCTGTAAGATCTAGAAAATTT
GACCTTGTAGTAGTATTTCCCAGGG

Sequence 5224

Sequence 5225

Sequence 5226

CCCTTTGAGCGGCCGGGCAGGTACAGGGAGTATCAAACGGTCTGGGTTCTACATGT GCTCTTCCCTGAGACTGGGTTTCTAATTTATAAAGCAAAGAGTTTAGAGGGATGATCTT CAAGCCTCTTGTAGTTCTAGAATTCTGTAGTTCTGGGAGTTTGTAAACTATTAAGTTTC CTTTAGCCCAGAACTTCCATTTTCCTGCTCTCTCGTGTCTGCTCTAGACTCAGCTCTAGC TCGGCTAAGTGTGGAGACTCTGCTGGGGAGATCCCTAGAAGCTTTGAAGAGCATTGT GAGGCTGGAGAACTGGGTTCAAATTCAGTGCTACCATTAAATCTCTGAATAACATCCTCA GTCTTCCATCTATAAAAGTCTTGGCATCTCCAATCACTTCTTGTTCTATTATCTCCTAAG CCCTATACATATTACTCTGNAATACTCCTTTGATCCCTATTTCTCACAGTGCTCTATCCT CCAAAGGTTGGAAGACTCACTCTATCTACAGATACCTCTTGGGCATATTTTATTACTGN GCTGACCTCCTGGCCCTTC

Sequence 5228

NNTNAGGGGGCGGAANTTTGGGGGNCCCCCCTTTCCTTNAAGANNNNTTTNAAAGGGGGGGGNCCCCCCANTTGGGGNCCCCTTTNCCCCGGGNAANGGNCCCCCGGGGGGGCCCCCCCCGGGNCCCCCCAAGTTGGTTGGNNTGGGGGATTATTCTTGGGCAAGAAATTTCCGGCCCCCCTTTTTAAGNCCGGTTGGGGTTCCCCGCCCGGGGCCCCGGAGGGGTTNACCAAGNTTTAAAGNTGGGTTAAAAAATTATTTGGGGNATTGGGTTTTTTTGGGGGNTTNCAAAAATAA

TABLE 1A 402/599

GGGCNANAAATTTTNAAACTTTTGGGTTTNAAAAAGCCCAAANGGNTTTTTGGGGGGGCCC TTTGGNATAAANNGGCCCTTTTTNNAAAAAAAAATTTTTAAAAAATTT Sequence 5229

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGTCAGCAGACAGAAATAGCCATACTAA TCTCATAGGGCTCAAATGCATCTTCAGGCAGCAGGGGAACCAAGCAGCGTGGCACAGGCCT TCTTGACTGGAGAGAGGCTTGCTGGCATGGTTGGGCAGTATTCCAGGAGAGGCCATGTC CGTGTTCACTTCTTGGCACATTTCAGTTCCGTTTTCCNCTTGTTATAAAAACTGCCTCTT TAGGATGTGGGATGCCTTAAATGTCTGTAACACATTTTGAAAAANCATTTGGGCAATTAC TTAAAGTTNGCTGCCATTGATTACCAGNATGGGAATTTATTTGGGCTTTACCCAAAAGAGGA CNCAAATCTGGATTGAATGGAGNAAGCAATGAATATCTTTGGCTTTCCCCATTATAAAAC NCAAAAAGGNTTAAATTNCTTTAAATTTGGCNANATTTTGGACCTTNCCGGTNTCTCCCT TTGGGTTAAGGGGGGATTAAGACCTTTTTNTNTTCANGNATTTCCCCA Sequence 5230

CCCTTCGGCCGCCCGGGCAGGTACTTTCGGTTTTGAAGCTTGCTCAGCAGTTCGTCTTGC
TTCTTTAATCATGGACTCTAATCCACCAAAAACACTATTNGTTGACTTGGAAGCCTCTCC
ATCAGATTCACTATCATCTGAGTCATTTAGTGTTACAACCACTGATTTATGCTT
Sequence 5231

Sequence 5234

Sequence 5235

CCCTTAGCGGCCGCCCGGGCAGGTACAATAGACTAGAAACGAAAAATATTCCATCAAAAC ATTTTCTCTTTTCATTTAAGGGAGATCGGATGTGGCACTTTGCGGTGTCTGTGTTTCTGG TAGAGCTCTATGGAAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT

TABLE 1A 403/599

CTGTTCTGGTCCTGGGAGCCATCATCGGTGACCGGGTGGACAAGAATGCTAGACTTAAAG GTGAGTGTTGTTATATAATTAAGCCCTTTTATTCATGGGACCAATGCCTGAGCTACCTCT GTAGCAAAGGAAACAACAAACTAGGAGAGAAACAACCAGGGAATGTCTGCATGCCACACT TGAGGGAGGGGGCTTAGATGGCACCACCTCTGGATGGAGGGGTCCCATGGCTCCCACAC AAAGTTGGGATGCCTGGACATTGACCTAATAG

Sequence 5236

Sequence 5238

Sequence 5240

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTAATCCTTTCTGTAATTGTAGGATG TAGATATTATAGTCCCAATATTAGGAATGAGGAAATTGAGACTCAGAGAAGTTAGGTTAC TTACTCCAAAGCACCCTGCTGATAAGTCGAAGAACTGCAATTAAAACCCAGGTCTGTTTG GCTCCCACTCCTGTGCTCTGGAATGCTTAAGGGATTAGAAATGTCCCAAAGAGACTAAGA ATCCAAAGCAGTAGTGGGTATGGAAGGTAACAGCAGTGATTTCCTAAGGACCTGGGTTCT AGCCCCAGAGACATGGTTAAAATTTTATAGCAGTTGCCTGCTTTTTGAGTCTGACAAGCC

TABLE 1A 404/599

Sequence 5241

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCATTATAACTGAAGGAGAAGGTGCCCC
AAAATGCAAGATTTTNCACAAGATTCCCAGAGACAGGAAAATCCTCTGGCTGGCTAACTT
GGAAGCATGTATGAGAATCCAAGCGATTTTTNTCAGAGAAANGCANGAATGTGTGGCAGA
TTTAAGTTGAAAGCTAGAAAATATGGCAAGCGAAAGGATGTAAAACAGTGCCNTGCTTGA
AATGATTTCCNAAAGAGAAAAA

Sequence 5242

Sequence 5243

ACTCTANTAACACTAGGATANTTGAGCACTTAAATGCTGAGTGTTTGTCAGTTTTTAAAA TTANGAGAAAGAGACATNATTGTTTTCTGATCTACTTGCTTAATAAATNATTTTTTTGCC AACTAATTTTTAGGTTTACTTTGGTAAATNCTAAAGGTCNGTNTAAAAATGTATATTTAA NATANACTTTTTCNTCTATNAATTTGGAAAGAAAAAATANATTTTATTCCTTTGGANGAG AAATTTTTTTACCTTTTAANACAANGTTTGGCTTTTNATANANGNTCNTATTNTTTGGTT AAAAAGGTTNATATCCTAATNTTTTC

Sequence 5244

Sequence 5245

Seguence 5246

Sequence 5247

TABLE 1A 405/599

Sequence 5249

Sequence 5250

Sequence 5251

Sequence 5252

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTATGTCTGGCAAAATAGCGCCCCAGAATGA TGAGCAAGCACAGCATGGCGAACACCACCGCCACGACGCCACCGATCACGGCATGAT CCACTGCCCTGATCGAGCCTTCTTCACCTGCTCGGGAATCTGAGAGGTCCTCACTGTCCA GTTCTTCTGCGGAATTGGGCAACTGAGTAAGGCCGTGAACTGCTGGTTCTGTCGCCG TTGTGTCTGTGATGATGGTAAGGATGGTGGTGG

Sequence 5253

TABLE 1A 406/599

Sequence 5254

Sequence 5255

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTTCACATAACATACTGAGAATGCGTTTCTG
TATCAGAGAATCATTTCTGAGAATCATTTCTGTAGTATTCCTGCCCAAGTGCCTAACCTG
AATCTAATAATGAAGAAACTTCAGACAAGTGAAAATTGAGGAGCATTCTATGATGCAGCT
AGCCTCTGCTCTATAAAAAGTCATAAAACACAAGGAAAACTAAGAAATCTTCAAGGTTAA
AGGAGACTAAAACCCCATGACATCTTAGATGCATGGTAATAGATTATAATATGATGATAA
TAGATCCTTGGATTACCATTATGGTAATAAGAGCCTTGGCTCANGGAAAAAAAAATTCCC
AAAGGGTGTTTGGGAGACAGTTGACAAAAATTTTGAAAAAATGGATTGGTTTGTTAAAATA
ATATTATTTTTAGGGCTAAGTCNCCCTGAATATGANAATTNTNCCNGGCACTTTTTAANA
ANACTTTTTTTTATTCTTAAAAAAACCCCCCCCCTTTTT

Sequence 5256

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTCGCTGTACTACGCGGGGAAAGCAGAAGGTCNCGCTTGGAGGAAGTGGCGGCTTTGAGTCCGGTGGCCCAATCGCTGTTACTACTTCTCTGAAGCTCCTCTCGGCTGCTTGCCGAGACACCCTGCCGCCAAGATGCCTCGAATTATGATCAAGGGGGGCGTATGGAGGAATACCCGAGGATGAAATCTGAAAGCAGCGGTAATGAAATATGGGAAAAATCAGTGGTCTAGGATTGCCTCATTGCTGCATAGAAAATCAGCAAAGCAGAGAAGCAGAGAGAAAACTCTTGCACTTGGCCAAGTTGATGAACCCAACTCAGGAGGAAGAAAACTCTTGCACTTGGCCAAGTTGATGCCCAACTCAGTGGAGGGAACACTCATTGGA

Sequence 5257

Sequence 5259

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCTTCAAGACATGATGGGACTAATAATTTG

TABLE 1A 407/599

GGCTGGAAGCAGAAACCAAATTAGTAAAATTCACTGAGCTGTGTGAGTCTGGCTCTTTAG AGGCAAACCTGTTTTCATAGGGCTGTGGACCCCAAGGAATAGATTCAGCAGATGGATCAT TGTAGCAAGAGTTGTAACAAAATGGCAGTCGTTGGAGTTAAGTGGGAGAGAGCAGTTGGTCT AGTTTGGAGCAGAAGTCCAGATATATAGGAAATGTCATGGGGGCTGGAAAACCCAAGTGC ATGTCATGGA

Sequence 5260

CCCTTAGCGTGGTCGCCGAGGTACTTTTCCCCTACCTTGAANAGACATGGTGGTCGT AGCTTNTCATCTATATGAAAAAGTTTTCGATGTATTTGGAATTATTNGGGAATGCTTTTAA AACAANTTGNAATTATNTCTTTACAAACCAAAACAAGAACACAAAGGTGTGGTGCTTGGA ACATAGATGAAGGAGCCCTACTTACTGAGCTTAANNTNTGGACTTTTTTGATNCNTGGGT GTNTGNGTTTTTAAAAAG

Sequence 5261

Sequence 5262

CCCTTCGAGCGGCCGCCGGGCAGGTACTCTGCTCCGTTGTGCTGCTAGAGCCACAAGC
CTATTAAACTTTGCCTGAAATAAATTCCTATTTGCGCTGGTGTTAATTTTTACTTATGAG
TGAGCCAAGAACTCAGGCCAGAGTTGCGGTAACACCACCAGAAGAGGTCTCCGCTTGTCA
GACTTGAGGGATATCATCAATGAGCCTCTGAGCTAATGGTGTAAACCAAAAATAAAATTC
TAAGCCCCCGCCAGCCAAACCATCTGAATGGACTTCCTCCTCAGCCAGGGTGCTCTTAA
AATTTAACCTGAGAGACTGGTTCAGGTCATGATGGGAAGTAGGGGTTGGACATGCCTCAT
TATACCTCTCCAGCATTAACATCAACATAAACCCTAAGTCTAAGAAATTTTTACAACCTA
TTCTCTCTGAAGCTGACTACCTTGGAGGCTTCATCTGTTTCATAAAATTTTTGGTC
Sequence 5263

Sequence 5264

CCCTTTGAGCGGCCCGGGCAGGTACGCGGGGGCAAAGCGGAAGGGGCGCGCGGATA GGTTCTGAATCTGTGGTGGGACCTGAGATTCTGCATCTCAACAAGTCCCAATGTGTCCAG AATTGGTGGGTTCTTCACTGAGTTCTAGAATGAAGCCGTGGACCCTCACGGCTGC CAGGATGGAAACTAACTACCTGAAGAGGTGCTTTGGAAATTGCCTGGCCCAGGCACTGGC AGAGGTGGCGAAGGTTCGGCCCAGTGACCCAATAGAATACCTGGCTCACTGGCTTTATCA TTACAGGAAAACAGCAAAAGCAAAAGAAGAAGAATAGGGAAAAGAAGATCCACCTGCAGGA GGAATATGACAGTAGCCTCAAGGAAATGGAAATGACAGAAATG Sequence 5265

TABLE 1A 408'599

ATNTNCTTTATTCAAATTTGGGGAGGAATATTATTTTTGAAACCAATGTCATAAANAATT ACATATTCAGTATTAACAATTTTGAATTTTAANTTAGGCTTTAAAGCCCAAATGGGATNC CTTTACAACATATTGAAAGTGTTTTGATTGAANCAGACAACATTTAAATTTT

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCACACTGGCCCCGCTCTGCATCCACAG CTGGATTCTCCACCCCTGAGCAAGACAAGGAGCCCCAGACAAAACGCTCAGGATTCCAGA GGATGGGGTTGAGGATCCTCAGCCTTTCAGAGTGAAAATCCACGAGGCGGAGGAGGTTTA AAACAACAGAAACAGGCATGTGGGGAAAACCATAGGTTCAATTAGAAGCACTGTACGCGG GTGGTATATAATTTTTAAACTGTCTAAAGGGCCGGGCACACTGGCTCATGCCTGTAATCC CG

Sequence 5267

Sequence 5268

Sequence 5269

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTCAACAGAACCTGATGCAAAGAACAG AAAAGGGGAAGATGTGGGGGGATTCAGTCAGGATGGTGGGAGAAATTGTAAAATTATAGGA AATAATCACAAACACTTGTGGAAGGCCTGGGGGTTTGCATAAAATGTTGGGCTGAAGGCA GCTGAATTCTCTTAAAAGCTTAGGGCATAGATACACAGAAATGTAGTTTATCTAAATGAC TTGTTTACTTATGTGGTCCTAAAACTAACCTTTGATAGTTTATGGGCAGGATAGCTCTC CAGGGTAGGGGGAGGGCAACCAGATTGATTACCCACTGATGGTGTTGACTCAAAGCCTTC GTCATTTAATATGTGCTGAATAAATGC

Sequence 5270

Sequence 5271

TABLE 1A 409/599

GGTACCGTCACTTGATAAGCTGAAAGGGGTGGATGTTGAATATCACCTAAGTGTCATTGC
AACCTAAAGCCTGTTATCCTCTTTCCAATAGAACCAAAGAGAAGTTGGTATGTAGCTTCT
CGGCCTTTTGGCTAAGATTAANAGAAGTTGGTATGTAGTTCAGATACTTCATTTTCTTTA
ATTGCACTGACACTAAAGCTTTGTATTTATAACTATTCTGGTTCTTATAGACTATAGGTT
CTTGGGGAACCCTCTTGTTAAGAGAAATTTTCCTGGACTCAAATATTTGATTTTCCATAGA
GAAGAAAAATTCAGTTTTATTTCTGTATTAAAGCATTTCAAGTCCCTTGGCCATAAGTCC
TCATAGTAACTGCTCAATTAATGTTTTCATAATCATTGCATAATTATTGCCTTCAGTCTG
TATAAAATGAAAG

Sequence 5273

Sequence 5274

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATTAATTGTAAACAATCTGAACAAAGA GTTGGCAAACTTTTTCTTAATAAGACAGATAATAATATTTTAGGCTTAGAGGTCACAGA GTCTGAGTCACAACTATTTAACTATACTGCTATCGCTTGAAAGCAGCCATTGAAAATGCA TATACAAATGAGCATTGCTGTGTTTCAATAGTATTTTCTTTATAAAAACTGTGGGACTGC AGCTTGTTGACCCTTGCCATATGAGAAAGTGTAAACTAAAAATAGAATATAGTATTAAAA ACATGATATCAGTCTTCAAAT

Sequence 5276

CCCTTCGAGCGGCCGCCCGGGCAGGTGCGCGGGATCTGTGTCTACAGATATTTACATGA
ATTGGGTGAACTCCTCTCTTTCCAAGGCCCCAAAAGAACTTGTGGTTCCTGGGCCTGCCA
GGAAGGTGACTCTCTACTTACCACAGGCCAGGAACCCTGCAAAGGAACTGCATAGACAAG
GTATGAGGCATCTTCTAAGGGGTTCTCATTGGCTCTATAAAATCAATGTGAATTCCTCA
AAGCTGTGTGCTCATATCCCAAAACATGCCATTTTAGTCCAAGTCCTAGAAAAATAACCAG
TGCCTCCAATTGTTTCCA

Sequence 5278

TABLE 1A 410/599

Sequence 5280

Sequence 5281

Sequence 5282

Sequence 5283

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTCATTGGAGAAAATATCATTCAGCTCTGAA AAAAGATGTTTTTAAAGAATTTTTACTGATATAGGGAGACACTCAGGGTATAGTGTTATA TGAAGAAAAAAAAATCCTGGTTAGTATANCANNTGGTAAAAGAAAAAAATATGAAGCCAGN TATTAAAATAATGTATAGCTGGGTGTGGTGGCTCANACCTATAATCGCAGCACTTAAGGA GGCAGAGGTGGAAGGATAGCTTGAGCCCATGAGTTCAAGACCTGTCTGGACAACNACTTT NAAATGGTACCTAAAAGTCCTCGGCCGCGACCACGCTAANGG

Seguence 5284

TABLE 1A 411/599

Sequence 5285

Sequence 5286

Sequence 5287

CCCTTCGAGCGGCCGCCCGGGCAGGTACATTATGGAGGCTTTCTCAATATCTGCCACTT
TCACTGCTTTTACCCCAGGGCCTATGCAAAGACAGCGTCCTCTTTTGAACATGGGGAAGC
CTTGAACAACTGTAGCACACAATATCACAGCCAAGGCTATAGCCATGCCCTTCACACTCA
TGTTTGTTTTTTGCTGTTGCTGCTGGTGCTGTTGCTGCTACTTCAGCTTTGCTGCTCTTC
TTGGAAGGAGTAGAAATGTGCTTGGCGATAAGCGATTGTCTCACCGCTCGGCGATAGGCG
ATGGTCTTACTGCTCGCGATAGGCGAAAGTCCCTTCGTGGTTGCCAAGATGTCCCGGA
ATTGGTGGGTTCTTGGTCTCGCTGACTTCAAGAATGAAGCCACGGACCCTCACGGTGAGT
GTTACAGCTCTTAAGGTGGCGCGTCTGGAGTTTGTTCCTTCTGATGTTTGGATGTTCA
AAAGTTTGTTCCTTCT

Sequence 5289

TABLE 1A 412/599

GTACCAGAAGGCAGATGATGGCCGTCCCTTCCCCCAAGTTATCAAGTCCAAGGGTGGTGT TACTTCAAGGGCTGGACGGCTGTCTGAGCGCTGTGCCCAGTATAAGAAGGGATGGAGCC GACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAGCATACTTCCTTGTTCCTTGCA **TCATG**

Sequence 5290

AAAANCNNGGGGNNAAAAAAAAAAANTTTTTTTNNCCCCCCCCCTTTTTNNAANANNAAAA TTNAAAAACCNNNNTNNNTNAAAAAAAAANNNNCCTTTTNNNANNGGGGGGGNAAAAANC TAAAAAAAATTTTNANNNNAANTTTTTTTTTNAAAAGNCCCCCCNNCNCCCNTTTTTT

Sequence 5291

CCCTTAGCGGCCCCCGGGCAGGTACAGGGTCATACAGATGAGCTTTGGGGTCTTGCCAC CTNAATGGAACACANGCTGGAATGGACCAGGCTGGTAGATGAACCAN

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCAGGCAAGCTCAAAGCCAAGAACAGCTGC ATTGAAGTAGGAGAAAAAAAAAGCCATTTAATTTCACCTGCCTTTCCCTGAAGGTGGCAC AACTTGGCATGATTGGTAGTAAACACCCCAACTCTTCTGCTGGGTAGAAAGTGAAAAAAGG AAGTCCCCCATTCTGAATTTTGGGGGGGTCACCTGATGGACTGGTTTCTGTCTCTCCTGAC TCAGTGCTGACTGGGAACTGGCATACTTTGGATGCCTGGGGGCTTCAAAGAAAAAAGAGT TAACTGCTTTTTGCAGCATCAAGANACTCANCANTGCTGCNGATGGAGGTCGGGACACTC ANACANTCANGAAAAGAGCGTGTGGTTCTTGGCTTATCCCTTTGGGCANGAAATGGGAAA AAGTGGAAAAGTGCATTTAACATTCTGGCTTT

Sequence 5293

CCCTTCGAGCGGCCGGCCGGGCAGGTACACGCCTGCCCTTCGGCTGTGGGTGTGTGG AAGGCCAGCCCTCACCACTCATGCCACTCTGATTGGGAGCCAGGTCAGCTATCACCACGG CCAGATCCTGAGCAGCTTTGTCAGAGATCACTTACCTGATCTGAAGCCCGAGCCTGCTGT AGCTGTTTTCCTGTGNGAAAATTGTTTATCCGCTCACAATTCCACCACAACATACTAAGC CCGGAAGCATAAAAGTGTTAANAGCCCTGGGGGGT

Sequence 5294

NANNNTTTTTTNAAAAANNATAAAAAANTTTNNNNGGGNNNNNANAANTTTTTTTAAA TTTNTTTTNGCAAAANNAANNGAAANCCCCNNTTNGGGGAAAAAAA

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAAATTCGTAATAACCTTTTATCATTTTTA GAAAACTTTAAATATATAGATAAAAATAGACAATTTTCATAGGTCCTCATGAAGATGAGT ATGTTCTGTTCCAAGGGCTTGCATAGAGCGCAAATGTGGTTATAATATAGAACAACTAGA CATTAATATTTTTAGGATTCAAAAGCATGGAAACCATAAAATGGGCACATTTTACTTGTT

TABLE 1A 413/599

CCCCTTTCGAGGCGGCCGCCCGGGCAGGTCCAGCTGGTTCCCAGGCAAAGCCTGTCTGCA
AAGACTGGAATAAACCTCTACTCAGATGTGCAGACATTCACATATAGCTACAAGAATTAA
GAATAATCAGGGAAAGAAGATTTCACCAAACAGACAAACNAAGTGGCCAGTGACTGACCC
TGAAGAGATCTAGAAGATGAACTACCTAGCAAAAAATTTAAAATACCTGTTTTCAAGAAA
GCTCAGCTAACTTCCAGAAAATATAAAGAAATTATTCAGAAAATTTATCAGAGAAATTCACAC
CAGAGACTAAATTAATAATAAAAAGCCCTATATCCTGCAGAGAAAAAATCCAGAGAACAAA
ATGAAAAATTAATACAAAATGGCAACAGCAGAATTGATCAAGTAGAA

Sequence 5300

CCCTTTCGAGCGGCCGTCCGGGCAGGTACAACCTTTTGTCCTAAGAGACAGTTAACAGCT GGGTTTAGTNTTACTGGGATTTACTCGAAGACTTGTAAAAGTAAATAATGGTGCATTTAA GAATATTTGCCTGTTTTGATTTAGTGAGTTTGGNAGGTGGCGGTGGCCTTTCAATGACAT ATGGCTTTGAAATTACATCAATATATGCATACAANTGTGTCTNTNNCTTTAGTTCATGCA TCAAATTAATTNATAAAGGACCCCTGG

Sequence 5301

TABLE 1A 414/599

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACGGTGAGAAACTCTCGAAGAGGACACTGTT
TGGCTGGGCCAAGACCCAGAGCATGCTCAATCTCCTGAATAAATCTTAGTAATGGGTGGA
ATATGACGGTAATGTTTCTGGCTCCAGGTTTGCAGACAAATTTTGTTCCTCCACCTTCAA
TTAAGTTGTCATCAGGACCCCCTTGCAGTTCTCCACTCCGACTATAGAGCTCCCTTCTC
GTTCTCGCAGATAGGCGCTCATACTGATGGCATGGAGAGACTCTGAACTTGAAAAGAG
AATTTTTTGGCCTTTGAGGTTTCTTCTTGGCAAAAAAAGGCTGCAAACTCTCGTCCAGTGC
TGGCATAGCTTAGTTGAGCTGATGGTTCANAGGCCGTACCTCGGCCCGCGACCACGCTAA
GGG

Sequence 5302

Sequence 5303

Sequence 5304

Sequence 5305

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCATGAAATTTTGTGGTCTTCCTGACATG
TTCTTCCGGCATAACGTTGCCACCTTCAGTTGGAAACGTATCCTTATCTAATAATTAAGC
CCTGGAGAAAAATTAATTTATATATTTATTAATTACATAAGGACATTGTTATTAGCTAA
GCAGAGTAAGTAAATCGAAATAAAACTTTAAAAAATGCCTTTATGGAGAGAATGACTATCT
CTGAAAGCTTGTTTTTAATGATGATAAAAATTCATGATCAGAATTTGTTTCTGTTTACTTT
AATTCAGGGGTCA

Sequence 5306

Sequence 5307

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCCGTGGGCTACGGTATCCGGAAGCTA CAGATTCAGTGTGTGGGGGGACGGCAAGTCGGAGGTANCAAGATGGCCCGCCGCTGA GGAAGGCTGTAGTGTCCGGGGCCNAAGCGGACAGGGAATTGGAGGAGCTTCTGGAAAGNG

TABLE 1A 415/599

Sequence 5308

CCCTTAGCGTGGTCNCGGCCGACGTACACTGGGTGAGAGNCANNCGTTCCTCTGCCTGNC CANTCANNGGNAACACCCNGAANCTGTNTTGTNCTTTGTANGAGCCNCAAANAGTNCACC TCTATGAAAACTNANTGACAAAATCCCTGAACAGGAANCANNCNTCNTTANTCTATCTTT ATTAAGANCATGATGATCCTCTTCAATTTGCTCA

Sequence 5309

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTAATCAGTCTTTGCTAAACAGCAGCTA
TTGCTATTCAATGGAGACGGTGGCCACCATTTCCCCTGCATCGCTCCCTACGTAATCAA
GTCCCTGATGGACTCTCTTCCCATAAAAATCCCTGTGTCCTAAAGTCATGGCGTGCTCTA
TTTCATGGCATTTGTAGAAGCACAGCAGCACTGTGCCTGTCAGGAAAAGTGTGTGCTAAC
TGCAATAAGCATGATGACTGCCATCACGGTTTTGTTATTCTCTGTCCACCTCCATGGTCT
CTAAATCAGACAATCTTTAATCTGAAAAGGCAGTGTCCTTATTCCTCAGGAAACTGGAT
AAGAAACCCTCCTCATCTAATGAAAGTCAAGCCCTGTCATCTTACTGATTCTTTCCCAGA
CCACAATGAAAGGCCTGTAGGGAAGGCACATGAAGAAATTTCAAAGTTCANGTTGGAAGT
CATAAAAACTAGCCT

Sequence 5310

Sequence 5311

Sequence 5312

Sequence 5313

TABLE 1A 416/599

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCTTTCCTTATAAGGAATCAAACTTGA CTTACGGAGCCAATAAAGCCCTTGGAAAAACTGGCCTCATATTCTGTATACACAGTCCCT GTAAGTAAAGAATATCACTTTTTGACAAGTGCAGACGCCCCAGGTTTATCTTGGGCCCTC AAAAGGAGAGAAATTTCACCCAACTCATGGGTATTTAATGGCATAAATCCATGGCTCGG CTGGGTTTTACGAGAGTCTTATCTGAGATTCCTGCTATGGAGCAAAGTTCCA TCAGAGCCTACTTAAAA

Sequence 5314

CCCTTCGAGCGGCCGCCCGGGCAGGTACGATGCCTCCATCCTTCTCTGGAAACTGCAGT TCGACGACAATGGGACATACACCTGCCAGGTGAAGAACCCACCTGATGTTGATGGGGTGA TAGGGGAGATCCGGCTCAGCGTCGTGCACACTGTACATATGCTGTTACCAGCACAAACGA GTCAAATTCAGCCACAATCACCCGGCCTTCCTGATCATGCTCCTCCTCGCCTATGCCGTA AGAAACTTTGAGTGGGCACTGGCGGGAAAGCAGGCCCACGCCACTGTACCTCGGCCGCGA CCACGCTAAGGG

Sequence 5316

CCCTTAGCGGCCGCCCGGGCAGGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACT CCCTGGCCAGGCGCAGTGACTTACGCCTGTAATCCCAAAGTGCTGGGATTACAGGCTTGA GCCCCGNCGCCCAGNCNTTCAAAAGGNNTTTTTNTTTTCTGNNTATGNTNGAANCCTTT TTACAATTTTAAAAAAAATGATCTGTTTTTGAAGGCAAAATTGCAAAATCTTGGAAATTT AAGAAGGTNAAAATGTAAAGGAGTCAAAACTNTAAATCAAGTATTTGGGAAGTGAAAGAC

Sequence 5318

TGGAAGCTAATTNGGCATTTNAAATTCACAA

Sequence 5319

TABLE 1A 417/599

Sequence 5320

Sequence 5321

Sequence 5322

Sequence 5323

CCCTTNGCNTGGCCGCGNNNACGNACNCNGNGNNNCTNANACTAGACNNNGAATCTNTT
AATGGTTTTCTNTCNNCAACTCTAACCCCTTCACNGCATCCTGGANAGCCNNCAATTTTN
NGANCTNNAATAAGCTTGANTGAACATCGGNNACANNTGNTGNNGGGGCNTTNNCCCTAC
NNTNTNCTTAATNNNAAATCANNANTNTNCTGTGANANANNNAAANTTNNCTTTTTGNNC
NCNCNNNNNNNNTTNNCCNGATAACGTATCTCTGGAANNGTGCTCTCTCCATTTATAAT
AAAACTACCCATGCTATGACTACNGACATCANTGGACGGGCAGGNTGCTTANACCAGTGC
CTGACATATATTTTCGTNACCACGGTGCCGGGAGTCCATTCTGGNGGGCGCAACATTCCC
TCNNGGGNGGGTCGTATTTNCAGAAATGGATACNTTGATTCCCCTGATTGCTCTNNTTCA
CAGAACTNNNACNTTTCCAACCTACNCAAAGAAAANGGGCCTTCCCGAAAGGAAAAGACC
ACCTGAAGGACCACCANAATGGGTCCATGGCTGCTGTGAATGGACACACCAACAGCTTTT
TCACCCCTG

Sequence 5325

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGCAGTTATAGCATTATTAAGCAGGTCCA GTGGCAAAGCTGAAGGGGGTAGCACTGAAGGACTCACAGCTTCTGTGAATTGTGGCATGA

TABLE 1A 418/599

Sequence 5326

Sequence 5327

Sequence 5328

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCTGAGCTTTCCAGAAAGGGATATGAGGGNC
CTGGTGGTGNCTTTGGCCTTGNTGNNCTGGAACCTTTGATTGCAGGACTTGCTTAGGCAA
CTGAAACCCTCCCTTGCTTACAATTCACTCTNGGATCTTTAAGGATCACCTGTACAAGCA
GTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCCGAGTGATT
TTGCGAAACCCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGG
CGGCCTACANAAAAAAGGAAAAAAAAGGCCACAAAAGTTCCCTCTNACTTTCAGTAAAAATAA
ATAAAACAGCAGCAGCAAACAAATAAAATGAAATAAA

Sequence 5329

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCAGACAGGGCATCATTTCTAGCCTTTATAG
AATATACATGCTTCCCACCGTTTCAGAGAATAAGGCTTATTTTCTTCAATCTGCACAATC
TTTGCATNCTTGTTNTCTAAATTATNTTTTTTTNTTTCGNTTGGTCTTGGGCATTTTTAT
TCCTTCCTTTCCACATNTGCTGTGCTTGGTCCCCCGATGTTTAGACTTTGATTTTNCTTG
GTTTGCCTTGCTTGACATATTTTCCTGGCCTGGNGTTAATCTTCTTGGACGAATCAAATG
AGCCTTA

Sequence 5330

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATCTACTTAAA GCAAAGTTTTGCTTCTTGAATGACTTTTTCTGTGAGAATTTTTTGATAAGAACTAGG GAAAACATGTCTTTTAGGTGTCTTGCCGATGACTATCCATAGGAGGAATGGCTATCCCAA AAAAAGTTCCGCAAAAAAGTAGATGAGTTTCTTTTTTTTAAGCACTAAAGAACAAAATGC ATTTTCATTAATACAGGCTTCTGATGAACCAGGAATCCTGTTTTCGTAAAGTTCCAATG TTGATGAGAGTAAATTCTTAAGCATTTGTCCTAGAGGTGAAAGCAGCTGAATGTTTCTGA ACCATCAAGAGGCAAACAAACAGGAGTTTGTTTCTTGAACCTGCTTATGCACACAGCTCT

TABLE 1A 419/599

TAACTCCTCATGAGGCACACAGCTCTTAACTCCTGATGAACCAAGGATTTACTCATAACT
TTCTCCTTGTCATGGAGGCTTAATAGACAACAGAATAAATGCATTTCTTGGGCCTCTTAT
AAACTTGGGAATTCTTAGAAAGCTGCTTCTATTACCAGGCTGNAATAACTGGGATAGTTT
TTTTTTCTCTTAAGAAGGTCTGGTATTAAGCCTGAGACAGCCATTTTTTTG
Sequence 5331

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGGCGTGTATGATTACCAGAGGGATTCAG GGAGGGGCCGTGTGTATACCAGAGGGAATCGGTGTTACATCCTCTAGGATTCCCTCCA GGAAACCTCCTACCTGCTTACAGGTAAGGACCTTAGGTGTATTCTTANATGGGTGGT TCTCAAACCTTCATGTGTGTATGAATTACTGGGGAGCCAGTGAAAATACAG Sequence 5333

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGTGACCTAAAGTTGGTAAGATGTCATAATGG
ACCAAGTCCATGTGATTTCAGTATATACAACTCACCAGACCCCTCCAACCCATATAACAC
CCCACCCCCGTTCGCTTCCTGTATGGTGATATCATATGTAACATTTACTCCTGTTTCTG
CTGATTGTTTTTTAATGTTTTGGTTNGTTTTTAACATCAACTNTAATCATTCCTGACTN
TNTTTTTATTACCCTNGTAAANTATTAAACTTTCACTTTTTTTAAAAAAAAAGATTTCT
TCATCTTAAGAAACATTTAACCCAAAATNNAACCCNTTACCTATTCAANTNAAATTCCTT
CAANTCTTTCTTTAATTTCTTTAAANCATCTTTACTTTCATTCCTCCCCNTCTTTTAAN
TTCTCCCAATTCAAAATTATTATCAAAAATAAAAAAAATCTTTTTAATTAAANTCAATCTN
AAAAAGTATAACCCTTTTATATTTTNAATCCACACACCTTTAATCTTTTTAACCCTTCCT
TAACCANAAAAAACAAAAACCATTTTTNNTAAAAAAACCCNANGTTACCAACTTTACAAAA

Sequence 5334

Sequence 5336

TABLE 1A 420/599

CCCTTAGCGTGGTCGCGGCCGAGGTACCGTATTACTTTTCTATTGCTTCTTTACCAAATA
AATACAAGCTTTGCAGTTTAAAACAACAGAAATTTAATTTTTTATAGTTCTGAGGGTCAG
TAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAGGG
CTGGTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCCTTCTAGGG
AGCCTGCATTCCCTGCCTCCTAGTGGCTTCCTCCCATCACTCGAACCTCTGTTTCCAGCC
TCAGGATTCCTAATGTGACTCTGACGTTTCATCTCCCGTTTATGAGGACGCTTCTGATTG
CTAAGATACATACGGTGACACTATGGAAGTTAACATGAAGATTAAAACCCTGAAAAATAG
AAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTANAAGTGGNGACAT
TTTCATCCCTTGATAAATGGATTAAAAAAA

Sequence 5340

Sequence 5341

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTCCCACTCTGATGCTTCTACAAAGCAGTGT CAAACATCTGCCTTGTTTCAGTTTGCAGAGATTTCTTCAAACACTTCGCAGTTGGGTGGT GCTGAGCCTGTAAAACGCTGNGGAAAGTCTGCACTCTTTCAACTGGCAGAGATGTGCCTG GCATCAGAAGGGATGAAAATGGAAGAATCAAAGCTAATAAAAGCAAAAGAATCCGATGGT GGAAGAATTAAAGAATTAGAGAAGGGAAAGGAAGAAAAAGAAATTAAAATGGAGAAAACA GATGAAACTAGGTTACAGAAGGAAGCAGAATTTGAAAAATCGGCTAAGGAAAATTTAAGA GATTCTAAGGAATTGAGAAATTTTTTGAGGCCATTGCAAATAGATGACATAATGGCTATAAA

TABLE 1A 421/599

GTACAAAAAAAATCATTTCAAATAACTNAGGAGGATGATAATGGCTGGACTTTTGTAATT CACCTCAAAGACTGTGGGAGAGCCAACTCNAACTTAANCTGTNATAAGNCTGGNGCATAT TGGNGGCTTGTANCATTGTAGNGTTTTTTCCAAAAGGAAGNGAAATATAAAATGTTTAGA TTAAGAACTATAAAACTACAGGGTGCCTATAAAAGGTGGCNTNACTCCTTATTGTTATTA TACTATCCAATTTTTAAAATGCAGTTTAAAANATAAGGCACNTGAGTCTTTGTTCCCGCG TACCTGCCCCGGGCGGCTCGNTCGAAAAGG

Sequence 5343

CCTAATTGTCCTATTACAGCCTTNCATTNGGGAACAACTGCATCNCTCTTCTTCTACAT TAAACATGGGCTGCACTTTGGTGAACAAAAACACTCAAGTATTGGACCAGTAACTTGGCT CCAGCTTCNACTTTGTTTACCCCTTGGTTCAGTGCATTTCTGCTCCATCACGAGGCTGAC ATGTGCAGGCAGNTTNGCGGTNAGTNTGTGCGTGCAGAAAAGGAAACA Sequence 5344

Sequence 5345

Sequence 5346

Sequence 5347

Sequence 5348

CCCTTAGCGTGGTCGCCGGCGGGGTACTGTTAAAACTTAACTGTATTTAGAGGTCAAAT

TABLE 1A 422/599

CCAAATTAAATGGTAAGGTAACATGGCTCTTGGAGGATGAGATAACTCATTTTTTGAGGG GAAANTTAGTATATTTTCATAGTAAGGCAAGATANAGCTAAGGGAGTTTGTGTGATCACA CTTAATGTAACAGGACAAAGGACAATTTAGGAGTAAATCTATCCCAAGGAGCTATNCCCA GATCATAAATGGGCCTCC

Sequence 5349

Sequence 5350

Sequence 5351

Sequence 5353

TABLE 1A 423/599

TTACAAGGGTTTTG

Sequence 5354

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTATATATAAATTTGGACGAATAGAAGTAA
ATATGTTTATTGGTGAAAAAGAATTCCAGAAACTAATGGCAGATCCTGAAATCCAGACTT
GTATCATGTATTAAGTGTTATCTGGCAATTAGCTTGTGAGATTAAGGTTCTGCACATGGA
GCCTTGGTCATCATTTGATATATACACCCGGAAAGGGCCGCTGGAAAACCCAAAGCGTAG
GGAATTATTAGACCAATTCAACAAAAGCTGTATCTTATTCAAATGATTCCTCGTCAAAAT
TTATTTACCAAGAACTTAACACCTATGAACTATAATATTTTTTTCACTTGTTAAAGCAC
TGTTTTGGGAGGCGCAGCGCCACTGTAATAGACCCTTACGTTCATTGACTCCACTTGATG
CGAGAGATATATTGATGCAAAATAGGAAAACAGGAGGGATGAGAAAGTAGTTAACATGCA
CCCTCAAGACTTCAAAACACT

Sequence 5355

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAGCAGGTTGGTGATCCCATTTTTAATGT CTTCATTACACATGTGGATCCATTTCTGCAGCGTGNCTTTCAGGTATTCCTGAACTNNAT TGGGAATGTNCAAAGGGTTTCCGGAAGTGNTTGGCTTGGAACCTCNGACGATGGGATGCT GGCAGGTGTTTAAACCAGCTGCAGAGNTNTCATCTCTTCCTGCAGGACACCANTGCCCT TTCCGGCAGGATGCTGGCCTGTGATGGTCTCCACAGTANNAGAAAGAAGCAAGCCACATT GGCAGGGCTGGATCTGGCAGGCAANTCTTCTGGCAAAAGTGTTANAAAAAGGGGC Sequence 5356

CCCTTAGCGTGGTCGCGGCCGAGGTACACAACCACATTACTGGCCTGGGGCCAAGAGAAA ATGCACTGACTGATGTGCGGACATGGTAACACCACTGTCTAAGATGCAGATACCTTGACG TGTCTCAGGAAATGGCATCCTTTGGGAGTCCCACAAGGCAGCCTACAGAAAAGCACTTCT TTTGAAATAAAAAAAAAGAGGTACCTCATCTACGTTCACAATTTTCCTGACACATGGTCTG GATGACAGTTCATCCTCTCTGTGGCCAAGGTATAAAGCTAAACATCTTGGT Sequence 5357

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCCGGGCAGGTAC
TAAATGGTATCCTTAGATTAAAATTTTGTGCTTGATAACAGCTGTTTTTTCTACATTAGA
AATAAGATGCCACACAAGGAACTACATTCCAGATTTAAAGAAATGAA
Sequence 5358

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTGGTGGCAGAGACTGGCAGTGAATTACT CTGTGCTTCCCTAACGCTCTGCTTTATGGGTTACGTTATCTTCCTTTGAAATGNCCCCAC TTGTCAGCCCTGCCAGCTGACATAGGAGCTGAGATAGAGGTAAGATTGCGTCATGAGTTC TTTGCCAATGCGGCCAAAACATTGTGGACAGTCAAAGATCTCCTCCCTTGGAACATAGTA CCTNGGCCGCGACCACGCTAAGGGG

Sequence 5359

Sequence 5360

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGCATGATGAGTCCTTTTGCTTTTAGGCTTT
TGACTTCTGGTTTTAGACTTCTCTAGCTTCTGTTGTTAGACAACATTGTGCAAGCTTGG
TTTTTATAAAGTTTGCATGGATTAAACTGAACCTNANNGAAANTTGGCCCTTCCCCCNAA
AATTCTAAGCACAAATTTTTTAGGGCCCACAAGGGAGTCAAAGCACCTCAAGGGAGATCT
TCAGTTTGAAACTTTGGTGTAGACACAAGGGATACCTGATGGAATCAAATATTCAAATTA
GCTGTNACCTACTTAAGAAAAGAGAGAGGAGACCTTGGGGGATTTCGAGGAAGGGTTCGTAA
GGGGAGATTTTAGCTTGAGAAAA

Sequence 5361

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACCTGAACTTCTTTTAACCAAACTAAACAG

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TABLE 1A 424/599

TCTATTCTTGCCCAAATTCAACAAAAGGCGAAATCCACCCTTGCAATGAGTCAAAAGCTT
TTGTATCCTACCTGATATGCCTGGAACAGCGTATACGGGGAACCTGTCATACTGGTAGCT
GGACTCCTTATGGCCCCCCCTTTGTTTGGGGGCCCTTAAATGGCTTCCCCAATGACACTCT
GGGGTTTCTCCCACCAGACAGTTGTCAGCACATATTCCAAATCAATAACAGTGCCCCCAG
TGAAACACAGCACCTTTGTTACTTAAATTACACATTACAGCAATACGATTGTAGTAGAAC
TCTTCCCCTTCCCTGGGGGGCCCTCTGTGTATGCGGATCCTATGGGTGGTGATACTTGCC
CCCGAACTGAACAGGGAGATGCACTTGGGGGGTGCCATTAATTCCATTCACTATCTGGGA
TAATATTTCCCTCCCC

Sequence 5362

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTTAATGTCCTGAGTTATGCTGTGGTGTGGAAACTATAGCTGTTACAAAGAGTAAATGATCTGTGAGTCCAGGATTTCTGCTTAAATCCTCTAGGTGACGCACTTGAAATTTCATGTTTTTTCTCTTAAAATATAATTTTTNCCTTTATGTAAGCTTGAAATTCATTTCAAACATCAGCCTTCAATCTAGCAAAGGTCTCAAGTCAAAAAGAGGATGTCTCCCAATTAAGGTTATTATATTCTACTTGGAACCCCGCGTACCTCNGCCGCGACCACGCTAAGGG

Sequence 5364

Sequence 5366

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATGACTTCCATCTGAACTTGAAAAGTATTA
AAATGGGTCAATATTCACATTCTTTTAGATCTCAGGATGGGAAAATGGGTTTGNTCAAAT
GGATATGGTAAATCTTACCCAATTAAGGAAGGCTAATTTTAGAGTTCTTCTAATTTGCTT
GTGTCAACTCTTAACTTGTAAAACTGCTGTTAACTCGGTTTAAATTTTTAAATTANTATA
ATAGAAAGAACACTAAAATACTTACTGGTAACTGCTTACAGCCATTTATCTGATCCTGTG
GATTACAGAATGCATTCCCTCTTCTGCTGTAGCTTATCATTGCTTTTNGTAGCTCTG
CATATTTTGCCCACCTTGTCTTCCCTGTAAAGTTTAAAACGTTTCCAANGAAAAGCTTCA
GGGGCTGATAGTTTCTTAACAA

TABLE 1A 425/599

Sequence 5367

CCCTTTCGAGCGCCCCGGGCAGGTACGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAG ATTCAACTTGCACCCGNAACCCACCGTCATGGCCNAGGAAGGCATTGCTTGCTGNGAGGT GTAATTGGGACGTTAATACCTTGGCTTNACAAAGAAGGGTTTNTGAAAANAACTTGCCCC TTCAATCCCNACNGAATGGNCCCCTAAGGCCAACGGTTNGGANATTTTCCGTCCGGAAAG GCCTTGCNCAANAANGCCCTTTTAANAACCAAAGGCCGGCCCCAAAAGGNCC Sequence 5368

Sequence 5369

CCCTTCGAGCGGCCGCCCGGGCAGGTACAACTTATCTCTTATTTGACTTCATTATTTG GCTTTCAAATTAACAACATGAAAACTATACAGAAATTAGTCTGTGCCCTATAAGACAGAG ATTTAGATAATTTGTTCAAAACATGAGATGATATTCAGATATTCTCTCAAAGGCAGGACT CCAACACCGCAGGTGGGAAACCAACAAAAGGGAAAGAAAACCAGAAAGGGAGGG Sequence 5370

Sequence 5371

CCCTTAGCGTGGTCGCGGCCGAGGTACCACACTGATGTGCCTGCATGTTGCATTATGAAT ATTTTTATTTGATAAAGAACAAATGGTTAAGAAACCCAGTGGTAGGGCTCTCATGTTATA TAAAGCTAAAAACAAAGAAATAAGAAACAATGAAGAATGAAAAAAAGAGACAAGCAGGGGT TGTCACATTTTCTCAGTGTAGACAGCGTCTCCTTCTGCCCCTGCCCGGGCGGCCGCTCGA AGGG

Sequence 5372

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACCCAAACCAGAAGAAGAAGTGAAACCTGT GAAAGAACCANACATCAAACCTCAAAAGGACACTGGGTGCTACATCTCCTAAAATACAAC TTGCACTTAGAATTTCTCTAGCAGTAAATAAGATAAACCACAGAATTTCAGTTCTTATTT CTCAAAATGATTTCTCTGAAGCTTGTAGAATAACTATTATATTCAGAGGGTTATCTGCCT TCAGCTTACTTGTTCTTAATTTTTAATACAGCGGAGATGTTTCTTGCTTTGTTTTCAGAC TCTCCTTTTTAATCAGGACAACATTTGAAAGATTTTATTGTGCCTCTAAAGGGTATATTT GGGGGTTGGGTCTTTTTGTTAA

Sequence 5373

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGTGCAAAGACAGATTTGACTTCCAAACAA GACAGACATTCATTATAGTTGTCTTACTTCACAATAAGCTACTAAAAACAGTCTTCTGGA ATAAGATTGTATTAGTGCTCACTAAACATGCATTTCATTTAAACAAGGCAAAACACTTAA

TABLE 1A 426/599

TTTGGTCTGCATTACCCAATATGTTATATACAGCCGTCTTTTTATTTTATCACAATAGGCAACAAGATGGGTCTGGTTTTGGAATATGTTACCATTTGTGTTTAATTTCCAAAGACACGCATATTAGCTCAACTAGTGTAAACCTGTGAAAAAAATAGCTGAGCCATCTTTTTCCTCTCCTCTGTTAATTTATCTTGAAATGTTCACAGCTTTAN

Sequence 5374

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTGACTGGCACTTCTGGCTTGTCCTGTTGTCCTTTGGAGAAGTCTGGGCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTCACAGGTCACCAGGGTGTGCTTGAGGGGACCGTNGACATAAACGGAATTTCANAAGGCCAGGGNAAAGAACTGCAAGAAGTANNAAAGGGTGGATTGTCCCACAAAGCTTCCCCGACAAATGGGATCAACTTGGGGAAGCTATCCATCTTGTGCTTTTCTGGAAACCAGTTTCAAATTGNTAAGAGAAAAGCCAANTCANGNAATGAGTTTCTTCCATTTCCAGGACTAACCATGGCCAGAGCAAAGCATGGATCCTTCTGAATTGCNANAAGTTGGTTGCANGGCCATACAGTGAAGTTANNTTGCTTGGTAAAGGACTTGCCAAAATGTTTGAANAATGGGGCTCAAANTTTTGGGGCASequence 5375

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCAAGCTATGAACTCTCTCAAGGAGATTGGAT
TTATTAACTACTATGGAATGCAAAGATTTGGAACCACAGCTGTCCCTACGTATCAGGTTG
GAAGAGCTATACTACAAAAATTCCTGGACAGAAGTCATGGATTTAATATTGAAACCCCGCT
CTGGAGCTGAAAAGGGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAAGACCAAAGACC
CAACTGCTGCCCTCAGAAAACTACCTGTCAAAAGGTGTGTGGAAGGGCAGCTGCTTCGAG
GACTTTCAAAATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATACCCAGAAATA
ATCGCTTAATGTATATTCATAGCTACCAAAGCTATGTGTGGAATAACATGGTAAGCAAGA
GGATAGAAGACTATGGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGGAGCCACA
GCCACCTATATTGAGGGAAGATGATGTTAATAATTACTCTATCCATGATGTGGTAATGCC
CTTT

Sequence 5376

Sequence 5377

Sequence 5378

Sequence 5379

TABLE 1A 427/599

Sequence 5380

Sequence 5381

CCCTTAGCGTGGTCGCGGCCGANGTACGCGGGTAGCATATTTTCCTGCAATGAAAGCGTT TGTGAACTTACCTACAGAAAATGAATTAACATTCAATGCAGA Sequence 5382

Sequence 5384

CCCTTCGAGCGGCCCCGGGCAGGTACAGAAAAGGGAACATCTCCGATGGGTGTTAAGG TAGGAGTTTCCATGCAGCCCTTTATGTCTGAGAAATAGTCTCCTCTGCCATTGGGGTCCC TGCGGAATCTTCTACAGGAATTGCAGCTCTTCACGTCATGCTAGGTTACCAGCATGGGCT

TABLE 1A 428/599

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGTGACCATGTCTTCCAAGAAGAATAGAAAG CGGTTGAACCAAAGCGCGGAAAATGGTTCGTCCTTGCCCTCTGCTGCTTCCTCTTGTGCG GAGGCACGGGCTCCTTCTGCTGGATCAAACTTCGCGGCNACCTCCGGGACTCTGACGGTG ACCAACTTATTAGAAAAGGTAGATGACAAAATTCCTAAAACATTCCAGAATTCCCTTATT NATCTTGGACTCAACACTATGAAGTCTGCAAATATATGTA Sequence 5386

Sequence 5389

TABLE 1A 429/599

AAAGCCGGNTNCATTAANAAAAATAAATATCTAACCNTNTAAAGATTCTTCCCNANAAAA GCCATAAACAAAATTTTGTAAAAAAAAAATNTATTCACCCAATTCATTTTCCCCCTTNAAAT NTTTCCACTTAAAAGTCNCNAGNNCTTCCTAACAAATATTTAAATCCTTTCATTTTTTC CAANTTTTTTACCAAACCCCCTTTCCTTAAACAACCCCCCCTTCCCNTTTTAAATTNCCCC AATACTTTTTTTTAAANCCAAANTTTTTTTNCAAATTNCTTTTCCTTTTTACCTTTTCNT TATCCTCCAATNNCCCTTNAAAAAAAACCAN

Sequence 5390

Sequence 5391

Sequence 5393

Sequence 5394

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACAAAATGTCCATTGAA
GTGGTTTCAAATTCCAAATAGTAATTGGAAAATCCACCACTCGTGTTTTGGGGTAGTAGT
ATCGAAAAAGAATAACCAAGATAATTTGAAAAGGCTATTAAAAAATACTTCTCAATTTTC
AAACTGCATACAGCAGGTGCTCATTCATTTCTTTGTAACATTGATGAGAAAAAGACTCCC
AGCCAGGGGCACTGTCTTTGTGGTGTTTACGTGTTCTCGCCACACCTGCATAGGTTTCTC
TGGGTGCTGCAAGTTCTTGCCACATCCCANAAGGTGTGGCACGTGAGGTGAAACTGGTNT
GTCTTCACTGTCCCAATTCTGAGTGTGGGTTGTGTGAGTGGCCCTGNGATGGAATGGCGT
CCTGTNCAGGGCTGGGTTCCCTCTTTGTGCCCTGAGCTACTGAAACAGGCTTNAGCTNCN
CATGACCCAGAACTGGAATTAATTNAGTAANTAATTTATCCTTTTTTATTCATCTTTNCT
TAAATGTATGTAATANGCTCACCATTTANTTTCAATGTTTAAATATTA

Sequence 5395

CCCTTTCGAGCGGCCGGGCAGGTACATCTCCGATTTCAAGAACTGATGAAATTAGA AAAAACACCTACAGAACATTGGATAGCCTGGAGCAGACCATTAAACAGCTCGAAAATACA

TABLE 1A 430/599

ATCAGTGAAATGAGTCCCAAAGCCCTAGTTGATACCTCATGTTCTTCCAACAGAGATTCT GTTGCAAGTTCATCCCACATAGCCCAAGGGGCCTCTCCCCGACCCTTGCTAGTTCCGGAT GAAGGTCCCACTGCCCTAGAGCCCCCTACGTCGATACCTTCAGCTTCACCGTAAGGGCTC CAGCGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGGAACAGACCCG GGAACCCTGG

Sequence 5396

Sequence 5397

Sequence 5398

AGTGTGATGGGATATCTGCAGAATTCGCCCTTAACNTGGNCGCNGNCCAGGTACATNGCG ANCCTTGCNTACAGNANANAAAAANTCCTACACATCTCGANGCCNAATTNNGNCNGNTNA CNGNNTACAGAAACTGTGCGGGCATCACGCTNCTNAGGACTNAGATTATCAACTGNCTCC CTGACTGGGCTCTTCTNTCTGAAATGACGACTNTTACTGTGTCCATACCTATNAC Sequence 5399

CCCTTTCGAGCGGCCGNCCGGGCAGGTACANGCNCATGTGCAGGNCCAAGCANGCAAGCA CACTTTNNTATNTGGGCAAAAGGAAGGGTCTAAACAGTATTGTTCACAAGGCCAAAATAG AGCAGTACACCANATTTGGATAAGTGGGAAGAAATTNAAAAACTNAAAGCATCTNTTTGG GCCTT

Sequence 5400

Sequence 5401

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCTGAAGCTCTTTATCACTTTGACCAATTGG
ACAATTGGCTGAGGTCTGGAGGCTTCTTCCTCCAGAGATTGCTGATCTCACAAAAGTTTG
TGGTTGAGATCTGAGGTTTACTCTGCTGAAGAGCTCCTTTTCTTAGAGTTTACTGCTTCT
ATGATGAAGAGCAATCTTCAGCTTGGTCCCCATCTCCAATAACAAACTCATTTGGAGTTT
CATTTTGAGATTTGGTAGCTGAAGATCAAGGTTTACTATCAGCTGGCTCTGACCTCTTCT
TATGCTCAGAGATCTTGACTGTATTTAAACTGTGTGATCACTTTCTCAGCTTTTTTGGGGT
TTTTTTTACTACCTAAGANGTTTCATTTACA

Sequence 5402

TABLE 1A 431/599

Sequence 5403

Sequence 5405

Sequence 5407

CCCTTTCCNGCGGCCGCCCNGGCGGGNACACGTNNACAAAAAANNNTCTNCGTGCCTAGN NTNCTTGCTNTCCNGTGGCCTANAAACAAGCNTAANNGGCTNGAGAATNANGCNCNNANT GTGCAACGGAAAGAATCTTTGNCTTATACTAGNGNTCTTATAAATATGACCCATANAATC ATNAAAACAAAATGAAACAGCCTGGGGATAACAGCAACGATGGAGGGTTCCCAGGAGCAC NNCGGGATGGAGATGGAAAAGGACATCANTCATTNCCTGTGGNNNGNCNNCTGNTTGAC ATGGGCCATCTCATTCAACTTCCTTAACACTTGANAATTAGGTATTGGCATCCCTGCTTT AGATGAAGAAAACCAAGGCTCAGCGTGATTAAATTGNGCAACTGGAATGCTTGCANAACC AAGATTTTTCATACTGGTGTGNACCTNGGACCGCGACCACCCTTAAGGGCGANNTCCATC

TABLE 1A 432/599

Sequence 5408

Sequence 5409

Sequence 5410

Sequence 5411 CCCTTTCGAGCG

Sequence 5412

TABLE 1A 433/599

GAATCTATAATTCTGTTGAGTGTTCAGGACCACAGAAGTCCTCCTGGGACTTTCTATGGA AGTATGTGCAGATTTTCCTCATGGAGCTGGGCGTGATGGTGACCGGGCTTGGCAATGTCT TTCCGCTCTGTCTCCTGGAATTGGGTGTCTGGGATGACGGACTTCGTGGAGATGGATTCT CAGCCTTCCGTTTGGCTGCCATGGCCAACAACCAGTTTTTATTCTCTGGGGAACTATTCT CTTTGCCTACCATT

Sequence 5413

CCCTTTGAGCGGCCGCCGGGCAGGTACTTCCCACTTTTCATAACGAGTTGGAGCCTAGA GTTGATCGACTCCAGCGACTTTTTCGTCTTCTTTGCGGCCACCATCTTCCTGCCTTAGGA GCGGGACGCCCCCAACCAACAGCAGCCGCTAAGATGGCCGGGGAACGAGAAAGA CTTCCCACAATGCAAAGCTCTTCACGGCAGACCCCGCGTACCTCGGCCGCGACCACGCTA AGGG

Sequence 5414

Sequence 5415

Sequence 5416

CCCTTAGCGTGGTCGCGGCCGAGGTACACATACCAATGTAAGGACACCAGAAACACANAG CAAGGACAGCTCCATAGCATCACAACAATTCTTCAATAACAGATTCTAATTGGAAAAAAA AGTTATAAAATGCTGCAAAAATTTTGAAATAATGATAGTGAAGTTCAGTAAGGTATAAGA CAACAAAGATAAGCAATACAAAGAAATTAGAAAGGTAATTCATGATNTGAATGAGAAATT CACCAAAATGATGGGATATAATGAAAAAGAACCAAACATAAATCCTGGAACTGAAGAATT

TABLE 1A 434/599

CAATATGTAAAGTAAAAATATTTTGAGGGCTTCTACAATAGACTATATCAANAANAAGN AAAGAANTTTCAT

Sequence 5418

Sequence 5419

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGCGTGGTAACAACGCAGAGNGAGAAA ATAAAAGGTTAGAAGATGGAGGGGACAANTAACCCCAGTATTTTTTTAGTCCAGTAGAAGA GATTGAAATGTAAAAANAGTTTTACCANGATTAATGGGTTTTAGGGNGGTGAAAAAAGTTN AAAATGCNGGAAATTTTTTGCCACNCTTGGGAAATTTTCNACCACCCCCTTTGGGGAACT TGGTNNTTTAGNGGAATTAAAAAANNTTTNAAAGGTTTTTTAAAAAANATTAANNATCCCCA GGANGCCNNTTTTAACCNCTTAANAGGGTTTTTTT

Sequence 5420

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGGTGTCTTCCAGCTAGTTTTCCATTCCA ACCGTCGCTCCAGCAACCCTTTGACCTGGGATTCGAGCCTCCACGAATGGACGCCACTTG CCGAGACCAGCTCGCTCGGGGAGACTCTAACCCAATGGAGCTAGGAATACCGGCTTAGGC TGAAAACTTCTATCGNCTTAGAAATGGGAATAAACCTCACACTCACTGTCCCTGTTGGAA GCAAGCTGAAACTCCAAAAAAAA

Sequence 5421

Sequence 5422

Sequence 5423

Sequence 5424

TABLE 1A 435/599

CCCTTCGAGCGGCCGCCCGGGCAGGTNCCCAACGTATTTAGGTTAGAAACTNTGGTATT CCAGCNTCCAGAACTACAAGTGATGAAGACTTTTGTTAGTCAATANCTCTAATTANTTTT TCTTGACCCCTCCCNTTNTCCACCTCCCAATCCTGGAAGGNTTACCCATCAGGCAGAATT CNTAATCTGCCTCAAANTTTACAGGTCCAAGCTTTGCGAAATNCCAAAGTGGCTCAAGGC AACTGCGNCCCNTTAAGAAACCTAAATNCCAACACCGAATGGTGTACTGGGTTAAAAGTT TTTTACTGCTTGAATAGTTAAGAAGCCAATGTAA

Sequence 5425

CCCTTGAGCGCCCCGGGCAGGTACTACTTCTTGGTTAAAAGGCCACTGGTAGAGTCA TCTGAGTGTAGAGAATGTCCCTTCACTGCTGGAAAAATCCACTGGCTCCCAAGAAAAGAA AATGGTCTGAAGCCTCTGTTGTGGCTCTCACAACTCATCTTTCCCTAAGTCATCAAGCTC CACATCACTGAGGTCAATGTCATCCTCCACGGGAAGCTGGGAGACGACAGAAAGCCACTG TTAGATCTGCAGAAGGGGACACCCTGGAAGGTCAACATCTCATTTTACGGAAGAGCGACT CTCTGGAGCTACTCCTGCTACA

Sequence 5426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAATTCAAGCAGTGGGACAAATGGGGG TTTGGCATGCAGCTCGTCATCTTAAGAGTTACTATCTTCTTGCCCTGGTGTTTCGCCCGN TCCAGTGCCCCCTGCTGCANACCATAAAGGATGGGACTTTTGNTTGAGGGCTTATTTCCA TCAAA

Sequence 5427

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAGCTTCATGAGACCTCTCCTTGTCTG
CATGGACGAGTGGCCAACTCTGGAGCCCAGGCTGTTGCTTCCCAGTCTGGTGGAATCC
TCCATAGTCTGGTGAGTGTAAATACATATATATCTTTTCCCTTCTCCCTTCCCATTGC
AATTTGCTTATTATCATTTTGCTTATATCTGCACTGCCATTTGGGATAAAGCTTGTTTA
CCCTTAAAGGTATTGTGTGTGTGTCTCCCCCCGCGCGTATTTCCCACACAGAACACCTA
AGAACCTATTTTTTATGATTTTTACGAGAAATGAATTCCAAGTTGTGCCTCAGAATTCAG
AAATATATCTTTCAACCTCCTACTCATTC

Sequence 5428

Sequence 5429

CCCTTAGCGTGGTCGCGGCCGAGGTACCATGCATTAAGAGCTTCCTGATTGAGATTCAGT GCATCAGCCCGTGTCTATTCCATCTACGTCCACCCGTCTGTGACCCACTCTTTGAAGCT GTTGGGAAAATATTCANCGATGTCCCGCATCAACTTGCAGAAAGAAATATAAATGACATT TCAAGGATAGAAGTATACCTGANTTTTTTTCCTTTTAATTTTCCNGGNGCCAAATTTCAA GGTTCCCAAGTNNTAAATACAGCAANCAATTTATGNAATNGAATTATCTTGGGTTGGAA AAATAAAAAANGATCACTTTCTAAGTTTTNATAAGNATTAACNGCTTTTNTTGANCTANT TTAATTTANTTTNGGCAGGCTNGAATTTTAAAAAACCCATTNAAAANTTTTTTT Sequence 5430

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTTGGTGATGAANGCAGAAATGAATGGCTCAAAACTTGGGAGAAGAGCAAAACCTNTAAGGGGCCCTCNCAGGAAACCAAATGAATGGGGCCTTTTANANGAATTCCNTTNGACTTGCTNNAATNAAATGTANGCCGGGNNACTTTCTTTTTAAAAAGGGGCCCCAAAGACCAANATTGNCTAAACCTNGNTCAAACCCCATTNCCCAACANNTTGGNCNTTGGCGATTGNTTGGTTAGAAAAAACCTAACCATTGNCCATTGNNGNGNGGTTTNNAANNGCANATGGGAAAAATCCNANGNTANCCANAATGGGGGGACCAACNNTTNGGNANAANAAATNAAAAACCACCCTTGGCCTTTNCTTNGTAAGNCCGTAAAGNTTNGTA

TABLE 1A 436/599

Sequence 5431

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAGGAGGTGGAAGTGTGAGTGCCATG
GGGTTGCTGACACTGGAGCAAGTTCTACTGTCCCTCTTGGGGCTTGNCTGCCTAAAGGAA
AGTGTCCCCATGGAATGAAANGAGGTTTTGTTTCCANTTTGTAAGGGCATTGGNACTCAG
GCCTTCTGGGGCTTCCACTCCCCGCCCCTTTTGAGGNAAACCCCCACCANCCNTGNAAGC
AGCCTGCACCCCACCTTNCTTGAACATNAAAGCTTTTGATTGGNTATTGCTAAAACTTTN
TTTNCTANAAAGGCTTTACCAATNCATACACCNTACCACAAAGTGCATTNATTCTTTTTT
AATTTTTACCAACCTNAAAAAAAAGGGAAAGGGCTTTTATTGGTTAAATTTTACATTTGGA
TCANTACTGNAAGTGTGGAGTCTTATTACCNATAATGCCTTTTCNTNTNTTTTCNTNTTG
GCCCCTAA

Sequence 5432

CGCCAGTGTGAATGGNTATCTTGCANAAATTCCCCNTTACCGTGGTCCCGGCCAAGGTNC CCGGGGANGGGGCCCGCAGCTTCACTTACACANCAAATCAACCACCATGAAANCTTTCA CGGGCCTGGGTTTTTTGCTCCTGGNTNCTGGGGTGTCAGNAACCCAAANCTTTCTTTTCG TTTCCTTGGCGAANGCTTTTTGAATGGGGGCTCGGGGACATNGTTGGGAAGAAGACNCTAC TTCTTGACCATTTAAGAANAAANCNCAATTTACCATTCGGGCTTCAGAACAAAAATACTT TCCCATGGCTTCCGGGGGGAAACCTTATTGATGCCTGCCCAAAAAANGGGGACCTTGGG GGGTGGTCTTGGGCCTTGCAAGAAAAAGCCGATCAANCCGATGCCCAGAAGAAGAATTATC CCANANGATTTCTTTGGCCCAATGGTTGCCGGGAGGACNTCCCTGGCTTGATCAAGGCCT GCCAAATNAAATTGGGGGGCCAGGANTTGNGCAAANAACCCCAAATCACTTCCCGACCTG CTTGGGCCTGCCCTGAAGAAAAATACTGAGCTTTCCTCTTTTCAACTTCTTGCTTCTCAANG AANATCTTGGCNTGTGGAAGACCCTTCANGGGGCAGGGGATACCAAAAAAACCGGGGGGAANGAAGGGCCCTTCANGGGGCAGGGGAATACCAAAAAAACCGGGGGGAANGAAGGGGTACCCTTGGCCCCCGGG

Sequence 5433

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGCATGACTGTCAGCTGCTGTCAATCCTTG GCTTTTGGAAGCAATGTCACGGCGCTTTAACTTGCTTTTCAGTTTGCTCAGCATGTCTTT GAAGCATCACCTTTACTCATCTCTTCCAAGGCTCACTGTTAACCACATTGGCACTATTTT CAGCAGGAAATCAGCTAATACTTAAAAGCTAGTGGGGCCAGCCCTCCTTCTTGTTGGTGA TATAAGCCNGTTTTTCAAAGAGCAGTCCTCAGAGAGACAGCATCAACATGCTCTGGGGTG CATGTGACACTGCAGATTCC

Sequence 5434

Sequence 5436

Sequence 5435

TABLE 1A 437/599

Sequence 5437

Sequence 5438

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCTCAAAAAAGAAAAATAGAAAATAAGAATC AAAAAACAGGCTGGGAAAAGTGGCTGACATCTGTTGGCCATGCTGGTTTAAACTTCTGAC CTCAAGTGACCTATGTGCCTTGGCCTCCAACCGTGCTGGAATTACAGGCGTGAGAAACCA CACCTGGCCCAATCCTCTTAACATAAACACTTGAATGTCAATTAAGGGTTGAACTCAATG TTAAGTCAACACAAACTCAAGTCAATGCTGGACTGACTCTAGTGTCAATTAATGCTTGAT GGTTTGCTATACTCACTGCATTGGGAACAGTTATCTCAAAAATGAATTTTCTGATGTTCT GCAAGGAGTGACCTCGGACTCAAGACCTTGCCACACTTCTGACATTTGTAAAGATTTCTG TCCAGTAGGGATTCTCTGATGTCTAATGAGGTGTGAACATGAAGTAAAGGC Sequence 5439

Sequence 5440

CCCTTTCCAGCGGCCGNNCNGNCGGGNACNGNAANCNCCANCTCTAGCNCTGGCAAACCT AGNCACTTGCGGCNNTNCTNNTGCANNCNCTGNTGCTGANCCTGANGGTATTGATCCNTT AATANACCNGCTGTCNAANNAACNAGATGGAGCCATTGCCAACGCTGCTACAGTATTAAC AAACNTGGCCCTGCGCCTGCGCCTGAGCATACANAATNACGACATCNTGCNTGC CATCNTCAGCCCNCTGCGTTCTGCANACACACGTCGTGCAGANCAAAGCTGCTCTCGCTG NCACCGCAACTGCATGTGACTGTTNAAGCCCGGACTGAGTTAATGAAATTCTGGTGG Sequence 5441

Sequence 5442

Sequence 5443

TABLE 1A 438/599

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCGTCACATCCCGGTAAACAAAGGTCCTGC TGAGCGGCTCCGAGGAGGGCAGTTTGCACTGGCAAGAGTCGAGTGTGGTCTCACAGGTAA ACTGTGTGAGCTGCGAATAGTGGTGGGCGGCAAAGGCCACGGCCAGCACACAGACCGTCA GGCCCAGGGCACTCAGCAGAAAGTATAACAGCTGCAAGAAAGCAGAAGAAACCTTTCTG GTTACAAAGAACATTGGATGATTTGCAAAGCGAATTCATCAAAACTGTTCTTTTTCT TCCCTCCCANAAAT

Sequence 5444

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCCCATGCAAGTCGCATCTCTACTAAGTTTC
CCTTGGACCCATGAGTAGGATAGATAGCCAGAATAAAACCAGTATCGTGTGATGTCATTG
AAAGAAACAAAGNTTCAAGGAAGGTAGTCACTTGGGGAAGGGGCTCCCTAATGCCTAAA
AAATAAAAGTCTCGAATTTTTAGCCTAGTCTTAATGATTATGCCCCATTCAACCTTTCCA
GGCTTAGCTACTCCCATTTCCCTACAAGATACTACACTTGAAACTAGACTACTTGCTCTT
TACTAGGGTATCCTCCATGTGCAAAGGCCTNTATCTTTTTGCTCATGCTAGCAACCAAAA
GACAGCAGGGGTCTCCTGGTAAATTTTAAGTGGTGAATGTGATTGAGCCTTGGCACAAAT
TTCAAGCAATAAGTAACAGATACTTTANAAAATAAGGGGGATCTTANGTAACAATATGAGT
CAGCGCCATAATCTCCTCAAGTTATTCTAAGCGATCCTAAAGGGGCATTTTACTCAAAGG
AGGGATTNG

Sequence 5447

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACAACAACTTGTTACAGAAAGAGCCAGG ATCCCAGACTGTGCTGAAGCTTCATGAGACCTCTCCTCGTCTGTGCACCGAAAGAGGAGC CGGACACAGAGTGTCCAGCCGACTCTGGAGCCCAGGCTGTTGCTTCCCGGTCTGGTGGTG AGTCCTCCATTGTCTGATTGTGAAGCCTGTAGCTTGGAAGATACAGGACATAGGTGAAAG TGTTTGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTGGGCGGC Sequence 5448

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTGAGAATGGTTCCTCAGTTTTGGTCTGTTT GGAGGAAGGCTGGGACATCACTGCACAAGTGACATCCCTGGTTCAGTTACTCAGTGATCC CTTTTATAGGACACTTGAAGGCTTCCAGATGTTGGTTGAAAAAGAGTGGCTCTCTTTTGG TCACAAATTCAGTCAGAGGAGCAGCTTGACCCTCAACTGTCAGGGGAGTGGTTTTGCTCC AGTCTTCTTACAGTTCTTAGACTGTGTACCTCGGCCCGCGACCACGCTAAGGG Sequence 5449

TABLE 1A 439/599

Sequence 5450

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGC
CTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTTGT
AATTTTAGTANAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGAACTCNTGACCTC
AGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGC
CCAACCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTNAAAAAA
ATGATNTTTTTTTGAAGGCAAAATTGCAAATCTTTGAAAAATAANAAAGGCAAAAATGGTA
AAGGGANTCAAAACTTTTAAATTAAGTTTTTTTNGGAAGTGAAAAACTGGNAAGCTTATTT
GNATTTAAAATTTCCCAAAACTTTTATTACNTTTTTCTTGGAATTACAAATTTTTTTTN
TTTT

Sequence 5451

Sequence 5452

Sequence 5453

Sequence 5454

Sequence 5455

TTNTTNTAATTATTTTNNNNNNCTNNNNNNNNNNNANNAAGGTATNNGGCGAATGGGCCCTCT

TABLE 1A 440/599

Sequence 5456

Sequence 5458

Sequence 5460

TABLE 1A 441/599

Sequence 5461

Sequence 5462

CCCTTAGNGNGGTNGGGGCCGAGGTACTAAANAAAANCTNNTTTCAGGCATATTACTTGA GGTCAGGAGTTCNANACCAGCTTGGCCACCATGGNGAAACCCCATCTCTACTAANAATTT AAAAATTAGCTAGGCATGGTGGCATGCACCTGCAGTCCCNGCTACTCTGGAGGCTGAGGC AAGGAAAAATCACTTGAAGCCNNGAAGCANAGNGGAGCAGTGANCCNANNATTGGGCCAC TNCACTNTTGGNCTGGGGCCAACCAANAANNGGGGGACCTTCCTTTNACCCCTTAAAAAA ACAAC

Sequence 5464

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTTCACCACAAATACAGAGAAGCTTCAAAA ACTGAAGCTCGAATATGAGACTCAAATTAAGAAGATGCTATGCTCAAAAGATAGCCTGGG ACTAAAAGAGGAACTGACAGATGAAGACAGAGAAAAAGGTTGCGGTGCAGGAGGGGATTAA CTCAGGAACAGCCATGTCAAGAGGATTGTATCAACCAGCAACAATCTTTATGGGCCCGCC AAATGTCAGCCATCTTAAGCATGAGAGATTTCAGTACCTCGGCCGCGACCACGCTAAGGG Sequence 5465

TABLE 1A 442/599

Sequence 5467

Sequence 5468

CCCTTAGCGTGGTCGCGGCCGAGGTACCGNTACACCCCNCTGCTNGGTTGGCTCCTCACT CCCAACATCTACCTCAGCGAGCTCTTTGGAAAGTTTCTCTTCATCANCTGCGANCTCCTC ACCGCTTTCCTCTTATACCGCCTGCTGCTGCTGAAGGGGCTGGGGCGCCNCCAGGCTTGT GGCTACTGTGTCTTTTGGCTTNTTAACCCCCTGCCTATGGCAGTATCCAGCCGCGGTAAT GCGGACTCTATTGTCGCCTCCCTGGTCCTGATGGTCCTCTACTTGATAAAGAA Sequence 5470

TGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGGCCCGGGCAGGTACACCGT GCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCCTCGAAGTC ATTCCGCACCCCGGTACTCNCACAGACCCATGTTAATGACCTCATGCTCGTGNAAGCTNA ATAGCCAGGCCAGGCTTGTCATCCATGGTGAAAGAAAGTCAGGCTGCCCTCCCNTTGCNA ACCCCTGGAACCACCTTGCACTTGTCTCCGCTTGGGCACTAACCACGAGCCAGATGTGGA NCNTTTCCCTCTGACCTCATGTGCCGTGGATTGTCAAAGCTTAATCTCCCCCAAGACTTG CACCNAAGGTTACAAGGACTTACTGGAAA

Sequence 5471

Sequence 5472

Sequence 5473

CCCTTTAGCGGCCGCCCGGGCATGTACTTGAACGAGCAAAAGCCAGAATATATCAGCAAAA CATACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGAAGCTCGCTTTCCGGA CTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGGGTAAGATGGTCCTCA ATGACTGGCAGAGGGGCCCGGATTCCTTTCTTTGTCAAGCCACCCAATGCAGAGCCACTT

TABLE 1A 443/599

Sequence 5474

CCCTTCGAGCGGNCGCCCGGGCAGGTACCAGGTCTTCTATGTGGGTGTCAGGATATGCT CCCTCACGGCTTCCGAAGGCCCCCAGCAAAAGATCTAACATTCTTGCTCAAAGTTGCNAG AGAAAGTATCACATGGAGTAGCTGGGTTGGGGCGGCGCCTCTTCTNTTCAGCTNCCTTA NCTTGGCTCCNTAAGTGGATCACTTACCAAATGCTTTAGATGATTGCCTCCAATAATTG AAAGGTGGNGGTAGTTGTATTGCTGCACTTGTCGGTGTTAAAGAGAAATTACTCTCACAA GAGCAGAGGCCTGAAGATNCTTTCTTCTGAAGGGGATGATGAGCCTGGACTCTCTGGGAC TCCTAGATT

Sequence 5475

Sequence 5476

Sequence 5477

Sequence 5478

TABLE 1A 444/599

AACNGAGGCTGCGTGAGCTGANACATGCCCTGCCTCCACCTTGGGGACAGAGCAGGAATCCNTTCAAAAAAAGAA

Sequence 5479

Sequence 5480

CGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTATCCCTACCTTCATGTTCCAG
TGGAAGACCTTAGNAAAATCAAAGATCAGTGAGTTCATCTGTAATATTTTTTCACTTGC
TTTCTTATTGACAGCNACCAGGAATTTTTTTATCCTNCCGAGCCAANTTNTTCAAAAATG
TNNAATACTTCNTCCTGCTTAACANGTCCTTGGAACTCATTCTGATCCATGNTTCACCAG
CAGGNTGGACAGNATATAATTTCGCATCATTNTTGNCCCTTGNAAATCAAGATGCTCTGC
ANATTATTTCCTTATAACGGNCGGACTTTTGGCTGNTTTCCTAATG
Sequence 5482

Sequence 5483

Sequence 5484

Sequence 5485

TABLE 1A 445/599

ANACCCGAAAAAGGAAAATTCTTTTAATTTTCTATAAATTTANATGTCTGATCCTCATCT
TTTTAAAAACCAAAATGATAAAACATATTTCTTAAACTGTTGGGTTCTGAAAAAGTCACC
CAATGGAATCAGCTAGTTCACATTTGAAAATGCAACTGCTAAAAGCTGTGGGATATTGCA
ATTTAAGTCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAAGAAGCATCAAAAGATA
Sequence 5486

Sequence 5487

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACA CGCCCTCCATCAGCAAACCGCTAGCAAAGGGAGAAGTCTCGGGTTTGACAAAGGACTTCA GAAATGGCNTNGGGAACCAGCTGAGTTCAGGGATCCCACACNTNTGNTGCNTCTCAGTGT GACTNANCANNTTCCAAATGGNGNTTGCCNATCCCANGGTTACNTNANANANTGCCNCTN AGAGATGTCCCGTGGCCCTTGGNTCTGCTGGGTCTTTTTT Sequence 5488

Sequence 5489

Sequence 5490

Sequence 5491

TABLE 1A 446/599

AAGAAACTCATGCACCAAACTCGAACTGGTAAGAAGACTGTTAGAATGCCCTCGGTAACA CAGAGGCTGAGAGATCCTGACATAAATCCTTGTTTGTCGATCCTGTTCTACCTTTTAAAT GATGC

Sequence 5493

CCCTTTCGAGCGGCCGGCCGGGCAGGTACCATCTATGAACCAAAAAACCTCAGACATTGA
TTCTGCTGGCAACTTGGATCTTAGAATTCCCAGTCTCCAGAACTGTAAGAATTAAATTTC
TGTTGCTTATATGTTATTTCATTATAGCAGCCTGAATGGACTAAGATATTTGCCAGTAAC
ATTTGACTTCAGGTCCTCTGCTCTTTCCTCTCTCAGGAACACTTTCTACCCAGCC
TTTCACATGGCTATCTTCTCACCCTCAGCTCTTTGGCTGAAATGTCAGAGGGTCTTCCC
Sequence 5495

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTGTAAACAAAACAAAGTTATATCACCAAGTG CCTTCCCCGAATTCGCTCCCTCAAACCAACCACACAGTTCTGACCACTCTACAGTCATGG CCTGTCATCAGAGCTTTGTATGAAATTAAGTCAAAGTGTGGAGCTCCTTTTACTCATTTT TTTTTCTCCTTAAAAAANAAAAGAANCAAATGTTCCANGTAAAAACAAACGTNTCCCAA AGCATGTGTGCNTTGAAAAGTAAAGAAACATTATAAACANCTTCATAAAAACTGACTTAAA AGTTTAAAAGGAAAAAAACATGTTTCTAAGTCCCTCTGA

Sequence 5498

Sequence 5497

Sequence 5499

TABLE 1A 447/599

GGGGGGGGGNCNNTTTTTTTTTNNAAAAANGGGNCCCTNTTTTTAAANCCCNTTTTTT
TTTTTNNAAAAANNAAANGGGNAAAGGGGGNTTTTTNCCNNCCCCNNTTTTNNTTTANG
GGGNNCCTTTNNAANNNTTTTTTTNAAAAANGGGGCCCNAANTTCCCCCNAANNNTTTTA
NGGGGCCCCCCCCGG

Sequence 5500

Sequence 5501

Sequence 5502

CCCTTTCGGCCGCCNTTTNAGGTNCTGGCATCAGTCAATGTNNTGGAGTNNTTNGGTCCC
CAATGTTGGCTATGAAGCTATNGGCTTGTGGACAGTAGTGGCCCACAGTTGGTGTTTTTG
CAAAAGCAACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAACTGGTATCC
GATCAGGGAGTGAGACAGAGNCCGAGGCCTCANAAATTACTATTCCTCCCAGCACCCCGG
CAGNTCCACANGCTNCCGTCCAGGGGGAGGACTACCGCAAAGGTGTCANCTTCTACCTCA
NGGACAAAGTGGNCNNGGGGAATGNGCTATGGAACANCTTTAACCCGAATGCCCATAGCA
AGGGAAGAATCATTNAGGACGGNGAGCAGCATGAANANCTCAATTGAAGTAGCCAAACNA
TCNACATTCATGAAAACTGGAAACCCCACCAGTGGAAATTGGNAAAACCCANTGGGGGNC
CTGAGAAGGAAGGTNCNAAAGGGGTAAAAGGANCCATTTTTTTTTATCCNCNNACTTTCNT
TTGGGGANTNAAAGGANAATGNANCAAAATNCNTTNGGGAATNTTTNAACNGTNNANGGN
AAATTTCTTATNGTTCAAATNNGGAAAAAAAAANCTGAAAAACCTCCCAAANAANGGAAAAAA
GAAAAAAAA

Sequence 5503

TABLE 1A 448/599

CCAAGAACTCAGTGGATCTATATAGGAACTTTTNTTGATCTACAGCGGGAGGNTTGCATA
ANAAAAAAAAGCGTTTGCCTACCCTTTTTGGAGACATACATGCAAATTGGTAGAANTAAT
GGAATTTCANTNACTTAATNTTTGANNNACNTTNGNGCATTTAGTGAGAACAANGGGGGG
GAATGCCTNNTTATAATTGAGAAAAANGGGGGANGTTTNTAATATTAANTANGGNATTTNA
TTAATTTNTTGCCNNATCANCCTAATTAACTNTACTAATTNTTTAAANTTTGNTTTACTT
TATTAAAAAAATNCTNTTTCCCATTTTTTTTAAAA

Sequence 5504

Sequence 5505

CCCTTAGCGTGGTCGCGGCCGAGGTNCTAAGATTAAGGACAGAGTTCCCTCCATTGTTCA
TTGATTTGTAAACCAAAATGTATCTGTGACAGGTATTAATCAATTGAGAAGAGTTTTTTA
TTTTATTTATTTTTTTTGCCAAGGTTCAGGACAGATCCAGGTGTCTTTCTCCA
AAGATGATTATGATGGTGTTAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGA
GGGTATGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCATGTACCTGCCCG
GGCGGCCGCTCGAAAGGG

Sequence 5506

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGCAAAGGTGTTGTTGCTCTGCCAAT CAACATCCAATGCTGGTGCTGAATGAAAAGGAAACTGTTGCTTGGCTTCACCAGTATGTG CGTCCCAAATAATTGTAGTCTTGTCTACTCCAGCACTTAGGATGAAATTTCCTTTCTTAT TCCATTTTAATGCAAATATAGGGCCTTTATGCTGCCCTAAGGTGCTAGCAAGGTTACCAT CTTTAGTCCATATTCTGGCAAACCCATCATAGGAACCAGTTGCTAGAAGTGTACCTGCCC GGGCGGCCGCTCGAAAGGGCGAATTCCAGCA

Sequence 5508

TABLE 1A 449/599

AAACCCCA

Sequence 5509

Sequence 5512

Sequence 5513

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTCTTCCACATGTTTTATTTGGTTTATGG CTAACAATTTTATATTTGTTAATGGTATTGGAAATAACATTTTTAAAATTTCAATTTCNT

TABLE 1A 450/599

GATTGTTTAATATTAAAAAAATACCCTTTGATTTGTGTATATTAATCTTGAACTCTGCCA CCTTGCTAACTCACTTATTAGTTCTAATAAGCTTTTATTTCATGGATTCCATGGACTGGT GTACAGTGTGAGTCTCCGACCTTCACAGTTGGCCGTGGCACCCCAAAAGGCCTCTGCTGG CATTTGCCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGGGGAAGC Sequence 5514

Sequence 5516

Sequence 5517

Sequence 5518

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTCTGTTTCTCATTTCCAAAATCTGAGGTTG
CACCTGTGTTTCTCATTTCCAAAGCCTGAGGATGCACCTCTGTTCCTCGTCTCCAAAGCC
CGAGGTCCCACTCTGTTCCTCATCTCCAAAGCCTGAGGTTGCACCTCTGTTTCTCGTCT
CCAAAGCCCGAGGTCGCACTTCTGTTTCTTGTCTCCAAAGCCCGAGGTTGCAGCTCTGTT
TCTCACCTCCAAAGCCTGAGGTTGCACCTCTGTTCCTCGTTTCCAAAGCCTGAGGTTGCC
TGCAAGTCTCTTGAGGATTTTTTGGTGTAAACAGGTTGAGTTTCTGGATAGGTGGGCATA
TTGGCAGCTGAATATGTGGGTTTTGAGTGTGAAATACAGGTTCTTAGCTATGACCCAGCA
ATCTTCTACTTGTTCTGTGCTCTNCCACATAAAATTGCTTTTTCTTGATTGTATTTCATA
GAGCAATTTCTGAGGCTGG

Sequence 5519

TABLE 1A 451/599

Sequence 5520

Sequence 5521

CCCTTAGCGGCCGCCGGGCAGGTACTCTGGAGTCACCAGCCTCTGGTAGATTATCAAGC ATCTCTTCCTCATCAGCCTTTTGTTTCTGTCTTGCATGCTTCTCTGTCCACTGTCTGGCA TTCTTGAGGAAGGCTGGCTTATTATATTTAAATTCTGAGGACTGAGATGAAATCAAAGAA AAGAGTTAATGGAGAAAAACATGATTTGCAGTGGTTAGAGCTGCTGCAGCTATCCTCACA CAGGGAGAGTTAGCGGTATAGACAAGGTAGGATATGTTGCAGAGGAAAATGGGGATAT TTACTATGTCAGCCATGAG

Sequence 5522

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATAATTTTATAACATTGTGCATTGATCATTT GGAAAATATTGGTTCATTGAGTTATGGAGATCTTTCAAATGTTGGCACATTTAATTATAC AATATAAAAAATTCATTAACATAATCACCAATTTATCAGAATGGTCTTTATGTATCTGGA AATTATTAAAATTGTAGTAGACAAACATTTTTCAAAATTTTAGTTTCACTTGAAAGCCTG AATTTATCAGTGGCAACAAATATTGNCAGTTATCTTCCTTGAAGTGTGAAGGAAACCNGA CTCTGNCACCCCAAAATAT

Sequence 5523

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGTCAAAGGAGGCATTTAAACTAGAAGGTTT
AAATATGGTCCAGAATCTCATAACACCCCAAATGTCCAGGTTTCAATTNAAAAAANTCACC
AAATCTAAGNTTTGAGTTNAAAAAAAAGAAAAACCATGTNGGACATTAAAACCACTTGAA
ATGGACAAAAGATGTTTANNAAATTANTTTGGATAATATTTTTTAAAGCAGCTCATCAT
AGAGAACACNTTCAGTGAAGCAAGTCCTAAGCACACTGAAAACAATGAAAATTTTAGGGA
ATCAGTTAGAGATACAAAGAAATGANNAATTTGGTAACTGAA

Sequence 5524

PCT/US01/09126 WO 01/070979

TABLE 1A 452/599

TAATTGAACCCTTAAAATATNTTAATATTTNCCCACCNATTTTTAAATTCAAATATTTAA TTACTNANTATCTATCTNCTNTATATAAAAAATCNTTTAATTCAAAACCCCTTA

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGATACAGATATTTAAGTTTTGTTGATTTG CACTGCTCAGGCTGGAGTGCTATGGCATGGTCTTGGCTCACTGNGACCTCTGCCTCCTGG TTTAAAGCGATTCTCTGCCTCACCTCCCAAGTAGCTGGGATTGCAGGCACNCCCACCCGC CTGGCTAATTITGGACTTCTGTCTGCAGATAGTAGGATGGTTCTGATTCTCCCAAATAAT GNGGGTCTAGAGAAAAGGAAAAAG

Sequence 5526

CTATCCAGGGTACAACACTCTGCGTCTGGCTGAGCCACAAAGCCAGGGAAATAGCCAGGT GCTACTGGATGCCCCTATCCAGTTGTCAAAGATAACGGAGAACTACGACTGTGGAACCAA ACTTCCAGGACTGCTAAAGAGGGGAACAGTCCTCGACAGTGAATGCAAAGAAGTTAGAGAA GGCCGAGGCTCGACTTAAGGCAAAGC

Sequence 5527

ATTCGCCCTTANCGTGGTCGCGGCCGAGGTACCGTGCACCCCGCTCTTACCCTAAGTCCA ACTCTTCCAAGGAGTATGTGTGACCTGGGATCTCCTTGCCCCACCTGACAAGGCTATGGG GGTGTCTAGAATGTCTGAAAAGGGCCTGGGGCTGAACTCAAGCCTGTGGGCANGGTGCCC GACAAANGCCTNCTGGTCACTCTGTCCCCTGCACTCCATGTATAAGTCCCTCTTGGGTTG **CCTTGCCCNG**

Sequence 5528

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGTCTTTTCCTTGAGAG GCCTGGATTTGTTCACATATTCAGATTTCAACTGGCTTTATAACANGTTTTCTTTAANGT GGCCNTAANAATTTGGCCTTCCAGGTTCACTTGGGT

Sequence 5529

ATATTATATTTAATAGTTATTAACATAAATCTTTGATTTGTNCTGGGNTGNGGAGATGG **GGTATAACATTATTAGCAACATTTACCCA**

Sequence 5530

CTTTGTTTTTTTTTTGCTCCTCGAATGACAATCAGTTTTATTGCATGAGTTATGGNGNC CAAATGANTTAATTTGCTTTTTTCACCNTCTGAANNAAAANAAGGCCCCCCTGCCGGCCC TCAATGCAAAAAANGGNAAAAAACTNGGATANATGATTTAANGCCC Sequence 5531

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGCAAGGCTGTCAACAGTCTTGGAGAAGCC ACCTGCACAGCAGAGCTCATTGTGGAAACGATGGAGGAAGGTGAAGGGGAAGGGGAAGAG GAAGAAGAGTGAAACAAAGCCAGANAAAAGCANTTTCTAAGTCATATTAAAAGGACTATT TATCGGTTAAGTCATTTGTGGGTTGATTCTTCAAAAACAACATTNATACCTAACANCATT ATTGATGGCCATTAATCTATTTTAATTTGNCACCTTAAAATCTAATACCACCTAAATTTC ACCCAACCCAAATATTTATCTTTANCCAAAATCATTAAAATTCTTCCACTTTTAATTCCC CTCATTTAAAAAATAAAGCCCAAAACCAAAAATTTCTTGANCCNCCAACTTCAAACCCAA AAGGTTCCCTGGGGNATNAGNAAAGCCCTTTTTTTNTTCCCCACCCCCTTACTTNTAAA

Sequence 5532

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAATCGGCACACCAATAGACATCTTGGCAGG AAGAGAGTTCGGCTCTGGCCTACTTTTCTTCTCTCTCGGTCCGCTGCGAAAGATGCTACGG

TABLE 1A 453/599

CGAAGGCGTGAGTCAAGCGAATGGCCCCCGCGTACCTGCCCGGGCGGCCGNTCGAAAGGGCCGAATTCCAGCACACTGGCGGCT

Sequence 5533

Sequence 5534

CCAGCGGCCGCCGGGCAGGNACGCGGGANGCCACTTNCGGCNTAGCCATGGCGGNTAAC GCTACTACCAACCCGTCTCAGNTGCTGCCGNTAGAGCTTGTGGACAAATGTATANGATCA AGAATTCACATCGNGATGAAGAGTGATAAGGAAATTGTTGGTACCTNGGCCGCGACCACG CTAAGGGCGAATTCCAGCACACTGGCAN

Sequence 5535

Sequence 5536

Sequence 5537

CCCTTAGCGNNNGCCCGGNCNAGGACCGGAACACNCGCTCAGTGGTCTCATCATTGGGGT AGGTGTCCAGGAAGATGGCTAAGCCGAGGAAGTTATCTTTGCTTCCAAACACCCGCGTAC ATAAATGCANCATTTTGGATTNGGNNATTTATATNTTCATCCTCATTAAAANGAAATGTG CCACTGAGGCTCACATAGATGATAACTCCCACTGACCACATATNTAGGGAACGGTTGTAA CCTTTGCTCCNGAGAACTTCACGGGCTAAGNNTGCTGGAGTTACTACCACANATCTCCTG AATGACTTTTCACCAATGATGCGTGCAAATCCAAAGTCACACAGNTTCACCTGAGGAAAT GGCTCTGCTGATGCAGGCACACTTTTCTGGCTTTAAATCACAGTGCACAATATTCTTA AAA

Sequence 5538

TABLE 1A 454/599

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTTTAGTGAAGTGAATGTATGGTTNTAAGG ACATACAACCACCGNTTGACGAGGTCCANCCTTGATATTCAGTTGTCCACACAACATCAT TCCAGCTATGGCATACCTGTTTTCCTGCATTCGTTAAGGAACAAGGGTCTTGATAGGGGG AGCCTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTACTTTTGACTTT GGAGATCTCCACAGGGTATNACAAGACATGCATCGAAGGTAATAGTTTGGGGTGAGCTTG ACCTGNTTACATTAATAATGAGGTGGTCAGCCATATAATGAGGAAAGAAGAAGAAGTANT ATAATAGATGAAGGAGAGTTAAACTTTTTCTTAACCGTTAGTTTGGTAGGGTTTTCCCCT

Sequence 5539

Sequence 5540

Sequence 5541

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGTGCTGATAAAGAAAACTGGACGTTATTTT
TGGTATAAATTCTTTTTCTGTCTTATGTCCCTGAGAACTCGTCAGTCTTGAGTGGGCCTT
GATTTTATCCTATTACACGTGGGAACATTAGATTACTTAAGGCAATTATATTTTCCTATA
CATTTCTGATGTTTCTCCAAGGTGTCACAAGCTGACTCTGAAGATATTGTTGCATTAGGG
AAGAAGTGTGTCATTGTAAATGAAGCAGTTCTTAATTTATATGCAATAAAATTTTTAAAA
GCTTATCTTCCTAAAGCATATACACACGCAAAACACACCCCAATACACTGTCATAGCATAC
GGAAAATGTAAAAGGGTTGGAAAATATAAGTTGACTGACATCAAAAAGTTAATATTCCTA
AAACATCTTATTCATTGATAAATCATC

Sequence 5543

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGACCCTTTTCCGGCTGACTTNTGANA AGGTTGCNCANCANNTGTGCCCGGCAGTCTAGAGGCGCAGAAGAGGGAAGCCATCCGCCTG GCCCCGGCTCTCTGGACCTTGTCTCGCTCGGGAGCGGAAACAGCGGCAGCCAGAGAACTGCTTTAATNATGGACAAACAAACTCACCGACAGCATCCAAGTTTTTAACAGGTTTTGAN AACTAATAACAAATTTTGAAAATTAAGNAACAGCTTTTGGGACCAGAAGGGGTTTACTTT TGCAAGCGGGAAGAATACCTTGANTTGGCTTGGTACCTGGCCCGGGCCGGCCNGCTTC

TABLE 1A 455/599

Sequence 5544

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCCCAGCTTACACTGCCTTCTTGTTTCAG
TTCTCAATACTCTCAACAGTGTTCTTTTCATGGTCTATTTAATGCACATTTTTTTGCATTT
TGTGCTTCTTCTTGATGATCGTGCTGCTCCAAAAGGAGCCCCAAGCATAGTGCTGAAGTGC
CGTCTAGTGTTCCTAAGTGCAAGAAAGCTGTTATGTGTCTCACAGAGAAAATACATGTGT
TAGATAAACTCAGTTCAGGCATGGGTTTGACCGCTATTGACCATAAGTAGATTAAAAAAG
GTGTCTTTAAAACAGAAACACATGANGATTATGTATAGGTCGGTCAAAA
Sequence 5545

CCCTTGGCCGCCCGGGCAGGTACAGCTCAAGGCGGCCGANAAATAGTAACCTTCCAGCTG CGCCATTCCAGCTCCCACAGCCACTGCCCAAGAACCTACTCCTGGAAAATTCTGAGCCTG GAAACCCGAGCTGGAAACTTGGGCTCGAAATGCCCCGCGTACCTCGGCCGCGACCACGCT AAGGG

Sequence 5546

Sequence 5547

Sequence 5548

CCCTTGGCCGCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAG TTCAATCTCAAGGGACTGGCATCTAGTGAGGGCCCTCTTGCTACGTCATCCCATGGTGGA AGGCAAAAGGGCAAAGAGGGGGTGAGCTCATCCTTTTATATAAGGGAACCATTCCTGTGA TAATGGCATTAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAAGGT CACACCTCANAACACATTGCATTCAGGATTAAGTTTCCAACACGTGAACTCTGGG Sequence 5549

Sequence 5550

TABLE 1A 456/599

GATTGCCAAGGCTCAGGTCGCTCGGCTGGTGGCGACACGATCTTTGGGAAGATCATCCGC
AAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTGCTTTCCATGACATT
TCCCCTCAAGCACCAACACATTTCTGGTGATACCCAAGAAACATATATCCCAGATTTCT
GTGCAGAAGATGATGATGAAAGTCTTCTTGGACACTTAATGATTGTTGGCAAGAAATGT
GCTGCTGATCTGGGCCTGAATAAGGGTTATNGAATGGTGGTGAATGAAGGGTTCAGATGG
TGGACAGTCTGTCTATCACGTTCATCTCATGTTCTTTTGGAGGTCGGCAAAATGCATTGGC
CTCCTGGTTAAACACCCGTTTTTGGGGGGATAAATTTTTCTCTTCTTTTAGGCCAATGATTAA
ATTTAGGGCCATTTTTNNGTTTTGTTAAAGGTTACCCCCCTTATTTTTTTGCCTGGGGTG
NTGGGAGAGAGTNCCAAAGAAAAAAAAAAAAAAAAAA

Sequence 5552

Sequence 5553

Sequence 5556

CCCTTAGCGTGGTCGCGGCCGAGGGACTCAGAANNNNNNNTTTTTTNTTGTTTTTCGAAGA AANAGTGTTCACTCTTGTTGCCCATGCTGGAGTGCAACGCCCCCAACTCTTGGCTCACTGCA ACCTTCGTCCCCCGGGTTTGAGAGATTCTCCTNACTCAACCTCCCAANTATTTGGGATTA

TABLE 1A 457/599

CCCTTCGAGCGGCCGCCCGGGCAGGTACATAGTAGGTATATCACATTCTACTTTGATGT
TTAACTGNAAGTATAAAATTAAATTTCTCTTAGATCGGATTTTACCTNTTGTATACGAGA
AACTACATTCTTAGTTTATTTGGGTTCTTTATGAAGTTTCAAACCACATGCCAACTGNGA
TGCTTGTTTTATTTGAAACATTTAGGCTGTCCAGTTTGGGAGGTCTACCGTTTTCCTG
AATTTNTACACCCTTCCCCNAGATATACCTACACTTTTAAAAAAAATTTGCTNCATTGCAT
CTGGGACTCATGNNATTTATTTACTACCAACAACTTTTANAAAAATATTTTAATTGGCCCC
CTT

Sequence 5558

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTGCCTTATTCTCCAACTCCATGGGCTGCTGCCCAGGCTCTGACTCAGTTTTGCCCTGGAAATGTCCTCTTGCTTTCCTTTTAGTAACTTATTCATCAAATCATCTGTAAGGCTGACTCCCACATGCCCAAGCCTTAATTTGGCTACATTTCAGCCGGCGTGGCTTCTCTATTAAATGGTAATGGCTTCAGGTTAACATCAAGCTGGACCTCTAAGTCAGAAGATCGGGTATGAGGCAAAATCATATGGTGCTTGACGTACAGCTGGAAACGCTGAGTATTCGAGGAAATCACATTCGGTATTTTATTCTACCAGACAGTTTACCTCTGGATACACTACTTGTGGATGTTGAACCTAAGG

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTAAGGAAGGTTATTGCNCAGCTCCTTAACTG
ATCCGGGGTCAAGGGCAGAANGGTCACTTTCCCCACAGCCAGGCTCTGATTNGCCTCCTG
TGAAAGACACCATGCCTAGCACANGCTGACGGGGCGGCTGCAGTCNAACCTTGCCTNCAG
ATTATGAACCANNATAAGTANCACAATTNTCGTGGCTACTTTCACTTCAAAGTGTCATGT
NTATTGATGCGGANCTTTCTGAATAGGGAGGTTAAAGCACACCTGCTTGAANAAAACAAA
TATTTCTTGTGTATCCGTTCTAAGATTNGNAGGCANGCAAGTCAATGGNTNAAAATAAAC

TABLE 1A 458/599

TTTCAGNANGCATGTNTCCCTGNCAANGNTATANTGGCAGCCCCTGGCTC Sequence 5562

CCCTTAGCGTGGTCGCGGCCGAGGTACGGAAGCGTGGGTCTGCAAGCGTGGGGTCTGCG TCACTGTTCGCGAGTTTGGTATCAGAAGTTCCCGGGTGCTGCCTTCAGTGCTGCCGAAT CACGTGGAACGCATGAAGAAAGCAGTGTCACTGATAAATGCAATAGATACAGGAAGATTT CCACGGTTGCTCACTCGGATTCTTCAAAAACTTCACCTGAAGGCTGAGAGACAAGATCTTCACCTA GAAGAAGAGAGAAAAACTTCAAGCGGCATTTTCTCTAGAGAAACAAGATCTTCACCTA GTTCTTGAAACAATATCATTTATTTTAG

Sequence 5563

CCCTTAGCGGCCGCCCGGGCAGGTNCAGGGACCTGCACATAGGTNGAAGGAAGTTTACCA
GATTGAGTTCAAAGTATTGAAGATGGTCTNTGAAAATCTAAACTTACGAGANCTCTTGAA
GTAGTCTGGCATTTNCAAGAAGTAACAATTAGTTGGAATATNCCTGTGGTTATTAATGCC
AATGTTAGATGAAACTTATNTNCAGTAGAATCCTCAAATGATAGCAAAAGTCAGACGTGC
CAGTTATGTAATAATTAGAGGCTTATNCACCTTAATGAAATTTAATCACACTTAGACCAA
TAGCATTATAGAAAGCATCCACACTTTATAATATTCTAAGTAACAAAAATTCAGTTTAGC
AGCCGAAAGCAAGCATGAAATGAGGAANGAAAACAGGAAGAAGAGCGAATGGTTATGTTT
TCTGGTGCCTTGGGGGAANGTGGGGGGGCCCTGTTTAACTAATGTGAATAANCCTCTAAA
CACTTNCTGAAGACTTAAAAGANGGGGCACCAAGAATTCTTTAACCTCTTGGTGGATACA
CCANTCAANGGTTAACTGNCTTCATTTAAA

Sequence 5564

Sequence 5565

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCAACCATATCTCCCTGATAACATCCAACCA
TTAATTAAAATCAACCTCAAAAATCTGAAAACGTTGTGCACCACCATAATTACTAAGCTAA
AATTACTATATTTCTCAGTTTACAGGAAAACAAGTAAACATTTACTTTCTGCTTTTGGAC
AAACAGATTAAATTATTTTTAAGAATGTTCTTGCCTCCATATGACTCAAGCTTACTGTGG
GATGCAGAACACCTAAGTGAGGAGGACCAAGGGCTCTAGACCTCCCTAAAAACCCAACCT
GCACCACTCCCTCCTACCAGCAGGGTCCTGAATGGGCCACCTGGGTATCTCCTCCANGCT
CACATTCTTGACACCAGGATACCATGTACCNCGGGGGAGGCATTGAGGCAGCCAGCCGCANG
GGCTTCTGCTGAGGGGGGCAGGCGGAGCTTGAAGGAAACCGCANATAAAGTTTTTTTCTTC
TTTGAAAAGATANAAGATTAATACCAACTACT

Sequence 5566

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGACATCCAATAAAACAGGTAGATGTCTTGGGAACTGTCATTGGAGTGAGAGAAAAGAGAGATGCTTTCTACAGTTATGGAGTGGATGACAGCACTGGAGTTATAAACTTGCATCTGCTGGAAAAAGTTGAATACTTGAGTCTGTATCAGCTGATCCAAGTGCAGCAAGAGAGACCACTAACCTCACAACTTAAGAAGCTACAAGAGACCATTGAGCAGAAAACAAAGATAGAGATCGGGGACACGATCCGAGTCAGAGGACACCAGTGTGAGCAGAAAACAAAGATAGAGATCATGCCACCGCTTACTATAAAGTGGACGACCCAGTGTGGAACATTCAAATTGCAAGGATGCTTGAGCTGCCCACTATCTACAGGAAAAGTTTATGACSequence 5567

TABLE 1A 459/599

Sequence 5568

CCCTTGAGCGGCCGCCCGGGCAGGTACTGTCACCTGTGGCCTTGGCTATAAGGAGGAGAC CGTCTGTGAGGTGGGCCCTGATGGAGTGAGAAGGAAATGTCAGACTCAGCGCTTAGAATG TCTGACCAACTGGATCTGTGGGATGCTCCATTTCACCATTCCCATTGGCAAGGAAATTTG AGCTTAANCTTGTCTGAGTTCATACATCTTGGATTTTGACAGGAAGCTTTTCCCGGTTCA CCTGGAGAACTTGGCTCGAGGTTGTCATTCTTCCNACTTGAACCAATGAAGGTCTTTCAA AACCCTTTTTCAAGCCAACATCCCACTTTGTTGAAAGTTTTTAAAAATATTGCTTCAAGGG AAGTATTGACTTCTTN

Sequence 5569

Sequence 5570

Sequence 5572

Sequence 5573

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGGGGAGCTGAGAGGGGGGGTTGCAAATTGG AGTGGTGTGGATCCAGGTGAGGTTCATAGCTGGCCATTGTGTGAGGTGCCAAGGCTGCTT TGGTTTTAAAGCTAGATGTCCTAGCTGCGTCTGGTCCATCTTTTCCATAGGAGATGCAGG AGAGGAAGCAGCTGAATCACTGTGGTGGCTTGGAAAATGCTTGGTCAGCCGATGCTTGCC ACCACCCAATGATGACTTCTGGGCAGCTATTTGTGGAAACCAAGTCTTTAACATCCCTTC TACCTGTAGCAAGGTTCCTAGGTAAC

Sequence 5574

TABLE 1A 460/599

CCCTTGGCCGCCCGGGCAGGTACGCGGGGACACAGAGGCCAGGCCTTAGCACGGCTCAGC CATGAGCACACAGGAGTAGCTTTTCCCGGCTCACCTGGTTCAGGAAGCAGAGGAAAGCTGT GGTCAGCACCAGCGACAAGAAGATGCCCAACGGAATCTTGGAGGAGCAAGAGCAGCAAAG GGTGATGCTGCTCAGCAGGTCACCCTCAGGGCCCAAGAAGTATTTTCCCATCCCGTGGA GCACCTGGAGGAGGAGATCCGTATCAGATCCGCCGACGACTGCAAGCAGTTTCGGGAGGA GTTCAACTCATTGCCATCTGGACACATACAAGGAACTTTTGAAC Sequence 5575

CCCTTAGCGGCCGCCGGGCAGGTACCCCGCAAACACATACACCTACTACGCACCCATAG
AGATAAAAAAAAACTTACCATGGGACAAATTGGCATCATAAGCTGCCTGACATGATGCA
TTGAGAACTACACATTACCTAGGTAGGATTTTTCCAAAAAAACGTTAAACTTTGTGTAATC
CAAATCCAAATAGAGGGTCATTCTCAGGTCAAAGTTTGGAGAGGACTATTCCACCTCCTA
GATCACACTTTCCTTCCCGAAAGCCGCTTCTCTCTCCGGCCTCTCCCCTCCTCCTC
ATCTGTTTGGCGGGAGGCTTCCTCACATTGCCGCTCCGCGTAAGTCCCCGCGTACCTCGG
CCGCGACCACGCTAAGGG

Sequence 5577

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTTAACCAGCTAGGGTTTTTGTCTGGATCTT
TAAAGTATATTGATNAAAAATGCACATACACATTTATTTTTTC
Sequence 5578

Sequence 5579

GGCAGGTACGCGGGGCTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTAGAAA ACTACCCCTAAAAGCCAAAATGGNAAAGGAAAAGACTCATATCAACATTGTANGTCATTT GGACACCNTAAATTCCGGGCAAGTTCACCACTACTGGCCATCTGATCTATAAAATGCAGN TGGCATTCNACAAAAAGAAACCATTG

Sequence 5580

CCCTTANCGNNGNCNCGGCCGACGTNCGCGGGNGCTANTTNCATTATNAATNGGNNNGCT NNAATNCACTTNGAAACTATTNNTCTGNNTTCCNNGANCTNAAATCTTANATTTNATGTN NTATTANGCTGNAAAACTACCAAAATANTAAGCATTGANTNAATGCCCATTCAAAAAAAN AATGCNCTNCNGNNGCTGAATTTAAGCNGGNATTTTAAGGTTNNGTGGNTCCTCGGCCAC AANGGGTGATGTCACTGATAGAACGAAGCTGAGTTTCCAAGGGTTTGGGGCTGTGCAAGA GTAAACACTAGAGCTTGAGTTGTTATCCAGCTGGCAAGCACGGAAGTCTTTGAAGAATGT AATGTAAAAAGGGAAAAGAATGTAAAAGCTTTTTGTNCCTCGGCCGCGACCACGCTAAGGG Sequence 5581

TABLE 1A 461/599

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCGCTGGCTCCGTGAACCTTAGGGACACACGCGGACACCCCGCGAGGCCGGAAAATGGACTCAGTGGCTTTTTGAGGATGTGTCTGTGAGCTTCAGCCAGGAGGAGGAGTGGGCTCTGCTGGCTCCTTCACAGAAGAACCTCTACAGAGATGTGATGCAGGAAAACATCAAGAACCTGGCATCTATAGGGGAAAAATGGGAAGACCCGAATGTTTGAAGATCAACACAAAAACCAAGGGACGAAAATCTAAGAAGCCATACGGGGAGAGACTCTTGTTGAAGGTAAAAGACTGCAGAGTAAAAACCAAGGTAAAAAACCAAGGAAAAACTTCAGTCCCAATCTCAGTGTGACCNAAAAAAGACTGCCGGAGTAAAAACC

Sequence 5582

Sequence 5583

Sequence 5584

Sequence 5585

CCCTTGGCCGCCCGGGCAGGTACGCGGGAAGGTTGGCAGAGTCAGCATATATGATTCCAA AAGGCAATCCGGGAAGGCTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGA CCTGGAGATCCTGGACGGTACCTCGGCCGCGACCACGCTTAAGGGCGA Sequence 5586

TABLE 1A 462/599

TNAACAANGGANGGAAANGGTTTTANTCCCNAANANANNCCCTACCTTNGNGTNNCCCCC CCAGGGGCNGGGGTNGGNCCCCTTTTTTTAANTNNNCCCNNTGGGNTNTTTGNAAANNCT TTNCCAAANAAGGAAGG

Sequence 5588

Sequence 5589

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTAGGATAGAACATGGGCTTAGAACACCTGT
AAGCCTGTTTTAAAGATGGCCCAGCAAACTGGTTGCATGTCTTGGGAGCTTGACCTTGTA
ACCATTTGGCAGTAGTTTCTCTTGGTCTCCACCATCACAACAGTGGCCCTGGTCAAGGGT
TCAATTCCCGGCTTAAGGGAATGATACTTNATCTTCTTGCTGCTAAGTATTCTATGTATT
ATGTGTGTAAACATAAAAAAGAAGCTTTAATTAATTNGTTTAAAAAAATTAATAAAGAGC
CTTAAATCAAACATTTTGTCACAAAAATTAAAAAGTATAATTGCCTTTTAGTTCACGTGA
CTTAAATAATCTTTTGGGGAAATAAAATCTTTGGTCTAA

Sequence 5590

CCCTTAGCGTGGTCGCGGCCGNTNTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGC
CTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCATCATGCCCGGCTAATTTTTGT
AATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGGAACTCCTGACCT
CAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG
CCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAAA
AATGATCTGGNTTTGAAGGCAAAAATTNGCAAANTCTTGAAANTTAAGAAAGGCCAAAAA
TGTAAAGGAGTCAAAACTATAAATCATAGTATTTGGGGAAGTGAAGACTGGAAAGCTTAA
TTTGCATTTAATTCACAAAACTTTTATACTCTGTCCTGAATATACATTNTTNTTTTA
AAAA

Sequence 5592

CCCTTTCGAGCGGCCGNCCGGGCAGGTACGCGGGGCTCTTCGTTAAGTCGGCCTTCCCAA CATGGCGCAGNCTATNAACATCACGAGCTGAATCTGCCGCAGCTAGAAATGCTCAAGAA CCAGCTTGGACCAGATGTATGTCCCTGGGGAAAGCNTGCATTGAATGTGGGNAACAACCG TTGCTCATCGGATGNGGGGGGAACCTGGGGGGTACCCTTCCNGGGCNCCGNCGACCCCAA CCNCCTTAAAGNGGGNCCGGAAAATTTCCCCAGGCCCNCNAACTTTNGNGGCCGGGGCCN CCGNTTTTAACCTTAANGNTGGGGNAATCCCCCGAAAGNCCTCCCGGGGTTAACCCCAAA NGCCTTTTGGGGGCCGNTAANAATTCAATTGGGGGNGACCANTAAAGCCTTGGTNTTTTC CCTTGGTTGGNTGGAAAAAAANTTTTGGTTTTAATTTCCCGGNCTTTCACCCAAANTTTTC CCNNCCNNCNAAAACNATTAACCNGGANGNCCCCNGGGGNAAAAGNCCCANTTTAAAAAG GTTTGGTTAAAAAAGNCCCCCC

Sequence 5593

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAATTAAAAATACAGAACCTACTAACACTA CTGTATTAACAAGCTGACTCCTATAATCTTTTGGAGATGGCAGATGATACTGGTTTTTAA AATACCCAATCACATATATGCATTCAAGAAAATATTTTGTCTTTATTTTTATTACAAGTG

TABLE 1A 463/599

CGCTAGCTCCCATTTCCTCAGTGCTCTTTAGCAATGAGTTTTTATGTTAAACACTTCCAA CTGTCAGTATTACCATGAAATCAACATTAGAAAATAAGGTAGAAAACTGAGTGTTTTGCT TAAAAAATAAAAAAGGATTAAATAGCTGTTGTATCCAAACATCACGTTCTGCTTCCATCT CTACATTCCACTTTCCCCATTCTTGGAGATTAAAAAAAACAGGGTTAGGAACTTTAATATC TGACAGACTACAAAGGGCAAAGACGTGGCACATGGCCACACCCTACCTGGTTGCC ACAACATTCTGAAACAGACCACACTTTCAGGAAAATGACTA

Sequence 5595

Sequence 5594

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGCGTCAGTGTGAAGGGAAGGCT
AAGGACGCATCGGTGCTGAGAGTTGAGAATATGCCTTCCCTCCACCCCCAACCCAGTCA
CCTTATTTGAAAAAAAATTAAAAAACACCTTTTATTTAAAAACCTAACCCTGGAAGTTTG
CTCGCTGCCTGAAAATCATATGCGTGGTTTTTCCTGTTTCCTGCTCTGTAGCTGACATCA
GGGGAGCAACGTGAACGCAGGAAAATGGAAATCAACATTTGAAACTTTTAAATGGAAGCT
TTATTGGGGTTCCACATATGGGAAAACTGCAAATAGCAGAAGTATGTGACTCAATAAATT
ATTCTGGAGTGACCACATCCTCTAACTGCCTTCCAGGACAAGACGGAAAAAATGTGAACAA
TGCTCCTGAAGGCC

Sequence 5597

Sequence 5598

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGGGAAATAATGAATAGTATTAAAGAAACA TTCTCGTCTTCCTTTACCTTTAATCCCCTAATACCTAGTCTACTTTTTAAATTTTCAGAC TTCACTGCTTTTTGAATTCATAATTCTAATTTTCACATTATTGTTAATGGAAAATCATAT

TABLE 1A 464/599

CTAATAAAGGTTTTAGTTATTCCCATGCACAGTATGAAAATTCTCATTTGCTGAGGGTTT
GTTTCGAAGAAAATGTNTTGGCATGTCTTTGAGAACATGTTTATTGNCTCCTGTGTCAT
ATAATCCAAACTAATCTCCGTTTACAGACTTTAACTTGGAATTAGACCTTATAATTAAAC
TATTTAAATAGGTGTTCAAAAGATAAGTTTCTAATGCATCAAAATATATACCCTCAAGNT
TTCATGGATTTCCTTTAACCATTATTAATTTGGGATAGATCAAAGAATCTTAACATGTTT
TCAANTTTCTAAANGAAGGCTGCAAGATTTTTTGGNAAACCTTTTTGGAATGNATTTTAC
CAATATTCTCTTGGTAATTAGCCTACATAAGGGACCTGGCCTTTTT
Sequence 5600

Sequence 5601

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGCTTCATCATGGAGGACTACCTGCAGGG
TTGTCGAGCTGCTCTGCAGGAGTCCCGACCTCTACATGTTGTGCTGGGAAATGAAGCCCG
TGATTTGGACTCCACAGTGTCTGCTCTTGCCCTGGCTTTTTACCTAGCAAAGACAACTGA
GGCTGAGGAAGTCTTTGTGCCAGTTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGG
TGACATTGTCTTCTTTCTTCAGAAGGTTCATATTCCAGAGAGTATCTTGATTTTTCGGGA
TGAGATTGA

Sequence 5602

Sequence 5603

CCCTTCGAGCGGCCGCCCGGGCAGGTACGACCTGGACGAAATGGCTATATCAGCAAGG CAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTAATGAAAATGC CTGAAGATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCA ATAGAGACGGAAAACTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCCA TTGTGCGCCTCCTGCAGTGCGACCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCCAC CAATCGAAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTTAACAATTTTTTT

Sequence 5605

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Sequence 5606

Sequence 5608

Sequence 5610

CCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTTATATANGCATGAGCCCACTGANCCCT GGCCCCTGAAANCGTTTTTCTNNAAAGGCCCTCAGTGAGATAAATTAAGAATTTGGGCAA TCTNCTNTCCCTGGGGCCAGGGATCTCTCTANAANAANCCCTTGCCCCTCTGTTNGNAGG CACAGTTTNAAAATAAGGAGGAGGAG

Sequence 5611

Sequence 5612

TABLE 1A 466/599

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTGTTTCTGATACTCAGAAACTTAAAAATCT ACCTTTAAGACTTCTGGCTTGGAAACTACCAAGAAGAGAAACCGCATTTCTGATGATGA TACTGATTCTGAAGATGAATTGAGAATGATTGCGAAAGAGGAAAACTTACAGAGAAC TACACAACCCTCAATAAATGAATCTGAAAGTGATCCTTTTGAAGTTGTAAGGGATGATTT CAAATCAGGCGTTCACAAACTGCATTCTTTAATAGGTTTAGGTATCAAAAATCGTGTCTC TTGCCATGATAGTGATGATGATATTATGAGAAAATGATCGTGAAGTATGACTCAGGAGAT ACAGATGAAATTATTGCGATGAAAAAAAAATGTTGCTAAGGTCAAAAAACAGTACCTCGGCCC GCGACCACGCTAAGGG

Sequence 5614

CCCTTGGCCGCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAG TTCAATCTCAAGGGACTGGCATCTAGTGAGGGCCCTCTTGCTACGTCATCCCATGGTGGA AGGCAAAAGGGCAAAGAGGGGGTGAGCTCATCCTTTTATATAAGGGAACCATTCCTGTGA TAATGGCATTAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAAGGT CACACCTCAGAACACATTGCATTCAGGATTAAGTTTCCAACACGTGAACTCTGGGGAACA CATTCAA

Sequence 5615

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGTAAGAGTAAAGACTTCAAAGAGGGATAA ATTAGGAAATATATGTGGAGGGATGATGGTTTTGGATATGTAGAACTTGAAGCTCTGTGA TGGAGATCTCTTTGGATCAAGTAGAAATGTGTTGGAGCTCAAAGGTAAAGGCTAAAATAT TAATTTGGGAGTAAGTTNCATTAANTGAAAGGTG

Sequence 5616

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTC TGACAAATGTCCTGGAAACACTTCGAGGTGATGGAAATGTGTTAATAGCAGTGGACACAG CAGGCANAGTTTTGGAAACTTGCTCAACTTCTTGATCAGATTTGGAGGACTAAAAATGCAG GATTGGGTGTTTACTCATTGGCACTCCTAAATAATGTCANTTCAATGTGGGTGGAAGTTT TCTAAATCCCAAGTAGAATGGATGANTGATAAATTGATGAAAATGTTTTGAAAACAAAAA NAAATAATCCCGTTTNAANTTNNNCATCTTTTTTTTTATGTNATGGGCCTTTCTG Sequence 5617

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACACAATTCAAAGCTCAAGACCAGATAGC TGCAGGATTTGAATCAATATTTTGGTGGGTAACTATCAGTAAAAACATAGATTGGATAAA TTACATCTATTATAACCAGCAGCGGTTTATTAACTACACTAGAGATGCTGTCAAAGGAAT AGCTGAACAGTTAGGGCCTACTAGCCAGATGGCTTGGGAAAACAGAATGGCCCTAGACAT GATATTAGCCAAAAAAGGTGGAGTTTGTGTTATGATCAAAACTCAATGTTGTACCTCGGC CGCGACCACGCTAAGGGCGAATTCCAGCAC

Sequence 5619

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGTGGAACAATCCAAAGTTTTAATCAAAGAA GGTGGTGTTCAGTTGCTGCTCACAATAGTTGATACCCCAGGATTGGAAGATGCAGNGGAT AATAGTAATTGCTGGCAGCCTGTTATCGCTACATTGATAGTAAATTNNGGGCTCCTAAAT GCCAGAATCACGAGTGAACAGACGTCAGATCCTGATAACAGGGTGCAGGGTTGTTTATAC TTCATTGCTTCCTTCAAGGACATGGACTTAAACCATTGGATATTGAGNTTATGAAAGCGT

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Sequence 5620

Sequence 5622

GGCCGCCCGGGCAGGTACACCAAACAGAGGAGTTTGGCTTTCTCCTGAAAGTTCCTGAAG
TCACTGAAGGATATTAGGGAGTAACACTGTCAGAGTGCTTCTAGAAAGCCTGCTGTGGTA
ACATTGAGCAACAGAGAGGAGACCAGCTAGGTATAGGAGGCAGGTTAGTACTGGAATAAA
CAGTGAGCATATCTGGTATATGTCATTATTTATTGTTAAATTACATTTTTAAGCTCCATG
TGCATATAAAGGTTATGAAACATATCATGGTAATGACAGATGCAAGTTATTTTATTTGCT
TATTTTTATAATTAAAGATGCCATAGCATAATATTGAAGCCTTTGGTGAATTCCTTCTAA
GATAAAAATAATAATAAAGTGTTACCGTTT

Sequence 5623

Sequence 5624

Sequence 5625

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CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCCGGAGTCTAGGGATAAGAATGCACTACAA
AATCAAAGCCAAAGGGTTGATGAGCTGGTGGCATGCATTGAAATTATACAGACCCTAGTA
TTGATGTTCAGAAGAAACAGAAAACCGAGTCATCACGCCTGAACACATTGGCAGCTAAGA
AGGGAGCACTATTTAATCTCTTGGTAATTTTAATTAGTGAGCCTCAGATTCCAAAATCTT
GTCCTGTGTTTGATATCCAGTTGGTGGCTGATTCAGCTTTAGTCAGAATGTCTTTTGACG
CTGAGTTACAGAAGCTTATTCTGGAGTATACAAATACTGCTACAGCACTTTTATATGAGA
TACTTCTTGTCTTTCAGCAGGGGAAATCTCGGATTGGGATCCACAAAGTTTTGCTATTAG
CT

Sequence 5626

Sequence 5627

TGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTCCTGAGGGCATACAACTT
AATTTCTACAAAAACATACTTTTTCAAAAGGGCTATGAGAGTATCAATTGACAAAAGCAG
AACAAGTAGCATGATTAGACAGAGAAGTCTTAATTGCTTAACACAAGATAAACTCAGCAG
GTTTTAAAGTGTCTGTATCCATTTTAAATGATTAGTCCAGGGGTAGAAAAGATGAGGATG
GTTTCATCATACTTTGAAAAGGAAACTCCCACTGGAGNCTAAAACAAACTTACAGGCCAG
GGTTATTAAGAATCCAAGTTACATAGTAGNATTATTATATTTTCATACCCAAG
TTCATTGCTTAAGGCAATAAAGAAAATCCCTGTTTTGCAGCATTTAATTTACATGTTAAT
TTCAGGTTTTCCAGGCCACCATAGTTTTAGGAGGGTCACAACACCAGGGCCAGAAGAAAA
GGAACCAAAATGCCCCNGCNCCAAGATCAATCTTCAACTGGCCCTCAGTTCCCAAGCCAA
GCCCCAGTG

Sequence 5628

Sequence 5629

Sequence 5630

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGAAAGGCAGAAGTTGAAATTAGTTTGAA
GACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGTGAAGCAACATC
AATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAAATTAGATTTTTAAAAGTAAAAGG
CAAAGAAATTTGCCACATATTTAATAATTACTCTTTGGGAATGACTGCAAATTAGAGATGT
TAGGTATTATTGATTCATTTATTCTTTAGCAAATGTGTATTGAACACATACTATGTATCA
GGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAGATAATTAAAAAT
TATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAAATTATTACAAATTATATACT
ACAAGGAAAACAAAGAAATAAAGGATTATGGAGGATTTACCCTAGGGTGGTTAGAAAANG

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GTTTTTTAG

Sequence 5631

Sequence 5632

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGATTTAGGCTTGCATACCCGAAAACCACAG
TTAGGAAGAAAAATCATTTCAGGAAACAACATCAGAACAAGAACACATATAAATTAAAGG
CATACTGTTTATCATTCCACTTCATTGCACATATAAGAAAACAATACTGCCGTCATTCTT
GAGTAAGAAAGTTTCCAATGAAAGAGGAAGTTCCACAATGAATACAGGTGCAGACAGTCT
TATTACCACAAATTTAGTTATATCAAAACACTTGGTGGTGTCACTAAGTTAAATTA
TCTATACTTTTTACTGGAAAGGTAATCATTTCCCTGCCTTCATATGTTAACTTAAAATCA
CTTACAAATGGAAATATAGATTCAGTAGAAAAGACTTCACATGCAATCCTATACAATGCA
TTCTGGTTTT

Sequence 5633

Sequence 5634

Sequence 5635

Sequence 5636

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Sequence 5637

Sequence 5638

Sequence 5639

Sequence 5640

Sequence 5643

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCTTGCAATGAAACCAAATAGTATCATAGACACACCTCTGTAGCACATTTTAGGTGGCAAACACTGTCACAGAATTTTAACTACCAGATCT

TABLE 1A 471/599

GTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTTTTAAGGCTTGCTGCGA CACTGCTATGTGTCCTTTTCAAAATCTGTTCTTTTCATTACTTAGAATAAGATCTC TCTAAAATTTTAAATTAATAGCACAGAGAGAGAGAGCTGGGAAAGCAGCCTTTTTATGTAA ATGAAACCTCTTAGGTAGTAAAAAAAACCCCCAAAAAGCTGAGAAAGTGATCACACAGTTT AAATACAGTCAAGATCTCTGAGCATAAGAAGAGGGTCAGAGCCAGCTGATAGTAAACCTTG ATCTTCAGCTACCAAATCTCAAAAATGAAACTCCAAATGAGTTTGTTATTGGAGATGGG Sequence 5644

Sequence 5645

Sequence 5647

Sequence 5648

Sequence 5649

CCCTTGAGCGGCCGCCCGGGCAGGTACATTTGGCTACCTGATGGACCATTTAACATTTAT
AAAGGGATTTCATTCAATTGTCATTTTCAATGCATGTTTTCTGTTTGTATAAAAGCTTTC
CCATGCAAGAGGGCTGATGTTACAACAGTAGATTATTGTGCAACAGTGTATTTTCACCTA

TABLE 1A 472/599

GTAAAAAATCTTTTCATGGTTCACTAAGGACAATCCCTTCATGATCTAGAGCCTGAAGG TAGGATCTTCTGAGAACATCAGAAAAAGACTATNTCTACCATCCACACTACAGCAAAACT TTGGGAGCCCTTGAACCTTGGGGTTCATAATCTCACAATGGG Sequence 5650

Sequence 5652

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGAGTGTGAAGTAGCCTCTGGTGTC
ATTTGGATTTGCATTTCTCTGATGAGTGATGCTATCAAGCACCTTTGTGGTGCCCATTTTGGATTTCTCTGATGAGTGTTCTGTGCTGAGCCCTTTGTGCCCACTTTTTAATTAG
GCGTTTGTCTTTTTATTACTGAGTTGTAAGAGTTCTTTATATTCTGGATTCTAGACCC
TTATCAGATCATGGTTTGCAAATATTNTCTCCCATTCTGTGGGTTGTGNTTTCACTTTAT
CGATAATGTCCTTAGACATATAATANATTTGTATTTTAAAAAGTGACTTGATTTGGCTGT
GCAAGGTGGGCTCACGCTTTGTAATCCCAGCACTTTGGGAGACTGAGGTGGNTGGAACAT
ATGAGGAGGCTAGGAGTTCGAGGTCAGCCTGGCCAGCATANTGAAAACTTGTCTCTACTT
AAAAATANANAAANTAGTCAGGCATGGTGGNGCACCGACTGGTAAAACCANCTTCTCAGG
AGGCTNANGCACGAGGAATCACTTGAACCCCATGANGAGGGGGGGTTGCATAGAGCTTGAN
ANTAATGCCAGGGCNANAAGNANGGAGANTTTGGTTTAAA

Sequence 5654

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACGCG GGTAAGGAGAAGGATGTTGACGACTGTTGGTTCTATTTTACGTATTCAGTGAATGGGAGC AACGAGGTCATGGTTCATGTTGTGGAGAATCCAGAGTGTCCCACTGGTCCAGACATCATT CCAATTGTAGCTGGTTGGTTGCTGGAATTGTTCTTATTGGCCTTGCATTACTGCTGATA

TABLE 1A 473/599

Sequence 5656

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGAGTTGCTTTGCAAACAAGCCAGGTAGAT AAGACATAATGAACAGGCTTCTGGGAATGGTATAGCTGTCGTTGGTCCTAAAACATGA Sequence 5657

Sequence 5658

CCCTTTCGAGCGGCCGCCNGGCAGGTACANAAAGAATACTCTTACTTCAACATANCGGTT AATCTCTGCAAAAGGAGACTANNNANNAGATGTAGGAGTTTTATCTGGATCCATAATATT AATNTTATTAACAAACAATTTTGGAGCAAATAAGATAAAACGTTAACATATCTNAAATCT ATGACACAGTTCTCAATGTATCCGAGAAATTCTGG

Sequence 5659

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Sequence 5662

Sequence 5663

Sequence 5664

Sequence 5665

TABLE 1A 475/599

Sequence 5666

Sequence 5669

CCCTTAGCGTGGTCGCGGCCGAGGTACGCTCATCTAACATGATTTGAGAAATTCATAACC
AGGCACTCAAATATCCTTGTAGCCTACGAAAAGTGAGTAGGGTAATAATTTTTGCTTTGT
AGGGAGAACTACAAATTGATATCTTTTAATCTGGCCATTTTTTAACATTTAGCTCAATAT
TAACAGAGAAATGTAGTCAGTATTTAGTAAAATAAATGTATTTTTAAAATATTTTTAGGA
AGCTGCAGAATGGCGACTGAGTGCTTCTTGATAAGTCTGCAGTGTTAGTTCTATATAGGC
TCCCTTCTGTGCTTCTGTTTTTGCAAAGACCTGTTTAAATTAAAAAGAAAATTTTAAAAC
AATAGGACATATGCTATTTATAAAGTTTTTCAGTTTTAAGACATCATTAGCATTTCTGTA
GTAGCAAAGAGTCCTACTTAAAAAAGGGCTTTCAGATTTCACAATTTTTCCCCGATTATAC
AATAAT

Sequence 5671

CCCTTTCGAGCGCCGCCGGGCAGGTACCCAGCAGGTGCTGGNNNNGGGAAGAGCACAG
AAGCCTAAACCTACTGTTTTCTGCACCCGGNGGCTAAAAACCTGAGCCAGAGAGATCCTA
AAATTGGGTCACAAANAAAGAGGGGGCATTACCTGTGGAGAAATANGTCACTTATTGGAT
CCACTTTTCACCTTCTTCAGGAAAACGGGGAATGTAAGGAAATTAGCTATCTTTTTGTC
TTTGCCTGTAAGAACAAAAGACTGAAAAATATTTAATCTTTTTTGCAAAATCTTCTCTTAA
NTTCTGTGTTATATCCCGTATTGGNTACTTNTGCACTGGTTATTTGTGGGATCATTTCAA
ATTAACCAAATTAATTGAGNTAAATAGGTAAATCAAAAATATNATTAAATNAAANTAAGG
TTTTAAGTCTNTATTTTTGTNTGGCNTGTNATATACCCCCAAAAATTCTTTTAAACCTAA
TGGCNAGAATAAATGACCAACCTTNCATAGTNGAGAGAGTTCCCCTNTCTGCTTCATTAC
CTTTTTT

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Sequence 5672

Sequence 5673

Sequence 5674

Sequence 5675

Sequence 5676

TABLE 1A 477/599

CTTTGTGGCCAGGCAGAGGTGGGCCCTGCCCAGGCAAATGACCTCACTTCTCAACTNCCT TNATCCCATCTTCAGNATGGGAGGAGGATAAAACCCTCCTGGGGTTTTATAAACCGGGGG TGGGCANCTTGGAAAAAAAAATNAGATGATCCGTGGAGTTTGCCTAACNTCGCATAAGGN CTATTTAAATGGTAGCTGCTAGCCGAAAATGCCAAAATTTTTT

Sequence 5678

Sequence 5677

Sequence 5679

CCCTTCGAGCGCCGCCGGGCAGGTACAATATTCTTTCCCTTACATATTCTTTTTAAAT
ATAAGATATTTTTATTGAAATGGGTGATTATGACAAAGGCCTTAGGAGAGCTCGGTCCAG
GGGAGCAATAGAGAAGAACTCAGAGAAAAAGACAGGCTTTGTTTTCCCAAACATTTTCCT
TATATCCCTGGCTTGCTCTTTCCCCTGTGAGCACCCTGGAGCTCCAGCCCTCCGTCACCT
TCTTTCTCCCATTTTGCCTGTGACTTAGGAATGAACGTGATGGTTAAGCTACCTTCATTA
AGCAGCATGACCGCTTCCTGAGCTCCTGCTGCCGCATTTAGGCCCTGTCAGCTGTGAGGC
CACTGGTGCTGAGTCAGAGGGAAAAGCTCA

Sequence 5681

Sequence 5682

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Sequence 5683

Sequence 5684

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATAAAATAATACATATGAAGCCACAATATT CAATTACAGTTCAAACTANAAATTACTAACTACATGTAGCTGCTTCATTTTTCGTTTTGC ATTTTGGCCCCTAATTTCATTATTTTACAACTGGATACCTGCTGAGAAAAAGATCCAAAC TTTAAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAATTTATCTTCAAGTGT TTNAAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAAT AAACAATTTTATTCTTT

Sequence 5685

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTATTAATATTACCGTTGGTTCAAAAGTAA
TTGTGGGTTTTGCCATTACTTTTAATTGGCATTTAATGGCATTTACCATTGCCATTACTTTTAATA
GGTGTTTAATATTGGCAATATCTTAATTGGCATTAATATTACATTGGTGCAAAAGTAATT
GTGGGTTTTGCCATTACTTTTAATGCCATTGCGGGTCTTGCCATTACTTTTAATTGGCAT
TTAATGGCATTTGCTAGTACGCGGGGAGAAAAGCTNTATAAGTTCAAGGGCTGTAAAATA
TGAACTACTTANGGTCGTTTGCCTNTCATGGGAACTTGGCTAGACT
Sequence 5686

Sequence 5687

Sequence 5688

TABLE 1A 479/599

TAAATAAAAAGGTTTTTTATTTAAAAAAAAAAAAAAAGTCTTTTCTCTCTGATTTAGGCTT GACCAAAGCTAACGCCAGACTTCTATGCTAAAAGCAATATGAGGTATATGTTAATTAGTT TGAGCATCATAACATCAATAAACAATTAATATTCTGTAACCCAATTAAGCCTCTGCTTCC TCTAAGTTAAAGAGAGGTCACAGAGGGAAAAAAATAATTTTATTAAAATCTAATATACTA ATCNGAAGGGATGGGGAAAACAAAAGTCCCTGCCCGGGCGCCCGCTCGAAAGGGCG Sequence 5689

Sequence 5690

CGCCCAGTGTGATGGGATATCTGCAGAATTCCCCTTAGCCGTGGGTCGCGGCCCGAGGTA
CTATTGACCCAGCGATGGGGGCTTCGACATGGGCTTTAGGGAGTCATAAGTGGAGTCCGT
AAAGAGGTATCTTTCTATAAAAGCTATTGTGTAAGCTAGTCATATTAAGTTGTTGGCTCA
GGAGTTTTGATAGTTCTTGGGCAGTGAGAAGTAGTAGTAGAATGTTTAGTGAGCCTAGG
GTGTTGTGAAGTGTAAATCAGTGCGATGAAGTAGGGGAAGGGAGCCTACTAGGGGTGTAG
AATAGGAAAGTATGTGCCTGCGTTCANGCGTTCTGGCTGGTGCCCTCATCGGGTGATGAT
AGCCAAGGTGGGGATAAATGTGGTTTCNAAGAAAGATATAAAATATGATTAAGTTCTGTG
GTTGTGAATGTTATAATTAAAGGAGATTTGTAGGGGGAGATTAGTATAGAGAGGTAGAAG
TTTTTTCGTGATAAGTGGTTCACTGGATAAATNGGCGTTGGCTTGCCCATGATTGTGAAG
GGGTAGGA

Sequence 5691

CCCTTAGCGTGGTCGCGGCCGAGGNACAACTGTCTAGAATCTAGCCGTCAGGACCCCATC GTGGACTGGCTTTCCNACTGGCATTGGCGTTGGCCATGGTGGGTTGTGGTTCTTGTTACT TGTGCTTCTGATTCTCCTNAGCTTANCCTGATTCTGAAACCTCTACCAATTATGTATNTC CCATTTATCTGCAAAGGGTATNTTNCTAAAACTGGGTNTGAAATTGNATGCCANATATNG ANGAAAAGTTAA

Sequence 5692

Sequence 5693

Sequence 5694

TABLE 1A 480/599

Sequence 5695

Sequence 5696

Sequence 5697

Sequence 5698

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTANTGAAGAAACAGTTTATGTGCAAGGTGTA TAAAAAAATATACCTTTGATAAAAAGATTATNAGGAGGCNTANGAATGTAGAATTTTTTA CCTACATTAAATAGGNTTTAAAAAAAATTATTTGG

Sequence 5699

CCCTTANCAGCGGCCGGNCNGNCNNGCTCANAGCNNATNANGCTGAACCNNNNNANTNTG ATGATGNTNACNNNTNANGNAGACNNNACTNAACACATTACCCCAATTGCNTTTGAGTCN GGAAAGACCTAGNNTATNCACAAATTGACTGTTTAACTTATTGNNNNNAGANCCAAAATG TGATNCTAAACAGCTTCTNGNTGATNCNTACTGGCAACCTGGAATGGAGACTTTTATCTA

TABLE 1A 481/599

Sequence 5701

TAAGGATAAACAAGAAAAGGAAAAAAGCAGANAAATGCATTATTGTCAAAAAAGCAGTCCT ACATTCAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGCTTAGTT TGAATGAACANAGGANAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAA GAGTCCAAACCA

Sequence 5702

CCCTTCGAGCGGCCCGGGCAGGTACGCGGGGTATGTTGTCCTTGAAAGGGCATAG
GTCTGTGGGAGGCATCCGGNCCTCTCTGTATAATGCTGCACAATTGAAGACGTTCAGAAG
CTGGCCGCCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAACCAG
GATATACTCTGTTCTTGAACAACATACAAAGTTTAAAAGTAACTTGGGGATGGCTACAAA
AAGTTAACACAAGTATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTTGA
AAGAACAACAGCANAACATCCACAACTCTGTAAAGCTGGTGGGACCTAATGTCACCTTAA
TTCTGACTTGAACTGGAAGCATTTTAAAGAAAATCTTGGTGGCTTTTCTAACAAATTCCCG
CGTATTTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACTTGCCTGTGGACCTT
AATAATGCAAGGTTGGCGATTTAATTATTTCTGGG

Sequence 5703

TABLE 1A 482/599

CCTGCTCTCTGGGCATTTAAAACCTTTATATCAAAATTACAATCAAGTCTTCTAATTAAC ACGATGAAAGTGCCAGATGAATTGTNTTTTACTGGTGGAGGCACTATGGGTTCACAGGCA TTCTCTGGTTTTGAGTTAATCAAAAAA

Sequence 5705

Sequence 5706

Sequence 5707

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACATCCCTCATTATCATTCTCAGGGAAAAG
ATGAATGTAGAATCTCTGCTGAGCTAGTATTTCCTGACACCCTGTTTATGTGCCTTGTGA
ATTGTGGGCATTGCNTTGTGGGGTTATTTCATTTCATCTTCACAATCACCCTCCAAAAGT
NAAAAAACAAAGACTGCCTCACTCAAATGTCCACTGCCATCAGTGCCCCATGAGTATATA
TACGGTGCCAAGCTCTGCCATTGATCTCTCCAGAGAAGAGGGGAAGTNAAACCAAAAGAAN
NTGAAAGACGTGTCTGACTGGGAAAGGGAACATCTNGTGACACCTTTCTTTTTCCCNAAT
GGTTCTTA

Sequence 5708

Sequence 5709

Sequence 5710

CCCTTTCGAGCGCCCCCGGGCAGGNACTTTTTTTNGTTTNTTNNGNNNTTTNNNGGCA
AACANANNNAAACTNTTCACCCANGCTGGAGNGCAGGGGCACGGTCTCGGCTCACTACA
ACCTCTGCCTCCTGGGTTCAAGTGATTNTTTTTGCCTCANTCTCCTGAGTAGCTGGGATTA
CAGGNGTGCNCCACCAANCCNGGCTAATTTTTATGTTTTTAGTAAANACGGGGTTTCACC
ATGTTGATCAGGCTGGTCTNAAACTCCTGACCTTGTGATATTTTCTTAANACTTCCTTTT
ACTTTACTGNNTGGACTCACCCTGAATTTTTTNTTGAGCAAAAATCCAAAAACCCTNTTTT
GGGGCTTGGATTGGGACCTCTTTCNGGTANAACTCTGCACATTTTCTTATTTTTCCAATT
AAAAGAATCAAGCTGCNTTTGTCTTCAGNGGTCTAAANAA

Sequence 5711

TABLE 1A 483/599

Sequence 5714

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGTGACATTAGCTCTGATTTCAAAGAGCTTA
CAACAGAGCTAGATAAAACAAGACCAGGATATTTAGAACATTTGGAGAATAACGAGAGGA
TATATAATAAAGGGCTAAACTGAATATAATTAAATGTCAGCCTGCATGGTGCCATGAGCA
ACAGTTAATTAAATCCAGGCCATAATCCATGTCCTGGTTCTAAGAAAAGAGTCTCCTACA
ATCTCTTACTTTCCACTGTAACTAATACCTGGAGTTCAGTCCAGTAACGTAATTTAGCAA
TGGCTATATTTCCATGCTCAAAAGGGAACTCTGTTGATCTTGAAATGTGTATGTTT
AAAAATGTCTATTTAATTTTGGGGGGGAGGAAAGGTAGCTTTTGATTGCACTTGGTGATTG
AGTNTTCAAACTTAATGCTTCTG

Sequence 5715

Sequence 5716

TABLE 1A 484/599

Sequence 5717

CCCTTCGAGCGGCCGGCCGGGCAGGTACGCGGGTAAGACTGACGTATCCGTATACTTAA GTGTTCCTGAAGGTCCCAGGAAATCCTAGTGCAATGCTATGAAAGTCTTTGGAGTCTTTG AATGCATCTACTTTACAGGCCTCTGCATGGACCTGGGAAGCTTTGGAAAGATGTGTCCCC CAGAACATCTAAGGCATATTAGAAAAGTTGTTTACACAAATGCATGGGAGAGTTAAATAT TTTGTCAACAATTGTCTAAAATGTTAATTGTTAGCTTAAGAAAGTCAAACAAGTTAAATC ATTGCCAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5718

CCCTTTCGAGCGCCCCGGGCAGGTACGCGGGTATTCCACCTGTTCTTTGAGCTGGTC CAGTGTTGCTGGAGAGCTCTGCTTGCTGCCTTGGTCTGCAGTGGCAGCTGTGCTTTCCTA CAAGCCCAACTTCATATATTCTGTGGTTTTTGGGTTTTGAATGTTTCCTAGTTTAATCAAG GATGGGCATTTCTGTTTCCATTTTGTGTTATTTTTAGTTATCCATGGAAAGATAGAAACA GAACTATCTTTAGTATTAAAATTACAAGTTTCCAGGAATCAGTTCTGAAATTATTTTGCA TCTTTGAAGTGTCTTAAATTTTAAAAATTGGTCTTGGCCAGGTGCGGTGGCTCACCGCCT GTAATCCCAGCACTTCGGAGGC

Sequence 5719

Sequence 5720

CCCTTCGAGCGGCCGCCCGGACAGGTACGCGGGGGTAGTCGGGTATGAGAACGATTGCA AGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGCAAATA CTTGAGAAGGGAAAANNTCAGCCCTTNTNCTGGAAAANNGGTTTTATCCTTNCTTGGGAA ANCTNGNTTTTTTTTGGCTTTTGGGTAAGNCCCTNACAAACTTTTTGGNCNCCCAACTTA ACTTTGGGCCCTTNTTNGTGGAACCTTCAAANNAATTTTCCCTTNCTTCCTTTTAAAAA Sequence 5722

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCCGGAGCCCGAGGCTTGCGGCGACCACGA GCAGCAATGGACTCTTGTGGCTGACTTCACTCACCATGCTCACACTGCCTCCTTGTCAGC AGTAGCTGTAAATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTA TGACATGAAAAAAAAGATTGAGCATGGGGCTCTAGTGCATNACAGTGGTACTTTTTTTTT

TABLE 1A 485/599

TTTTTTTTTTGTAGAGCTAGGGTTTCACCATGTTGCCCAGGCTTGNGATTTTGATGTCT
ATGATTATAGACTAATAGGAATAATTATTTCTAAACATCTGATTTACACCATACAGAGANG
GATTAGGTATTTTTTTTAAAAAGTTTATNTTAAAACACATATGCTCATTAATAGGTATGA
ATTCATTACCTTTCTTGCTGAGTCTGCGTTTAAGTTCCATTTTTGCTTCTTGGTCCCCTTC
TTCAATCCTTTCTGGTTAATNAAAGGAGGNAAAGTCNTGGATACNGNTACCTTNAAATGA
ATTCATATTCAGAAAAAAGGTTNTNAGGCCNCGAATCATGTGACTNTTACCAAATAATGGA
TCAAACCNCNCCACCACCATTGTTAAAAAAGTTGTAAAAAAATTTTGGNGGGAANGGTGG
TTTTTTTANCCNCCCCCCCTTTCCC

Sequence 5723

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGGGGGGGGTNCGTNTGCTGGGTTTGCGGAG CAANTACNTACTCGGCGGGATCTCCCGGCANGATGGGTAAANAGATAAAGAAGGAAGTAT ANNCTCCTNCTAAGGATGTGTTNNNCNCNNTAATGATTGANAGCNAAAAAGCACCNTCTG TGGTGTTAATGCTNAATTNTNCANAAGAGGANATTTTNNCTAAANCATGNGAAGCCATNT ATAANTTTNCTTTAAAAGGTG

Sequence 5724

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACACTCCACAGGGTGGGAGTGGTCCTAGCAC ACGGGCTCAAGAGCCCAGTTACAGAATTTTGTGGGGTTTAAATACCCTCTAGAGGTTTCC ATTGGTTACTTCCATTGGTTTATATTGGTGTATGCCCTGTGTAATGAAGAGCATGAAGTT AAGTTACAAAGTCATCTACTCTGTGTATAGCCCTATGTCAATGGAGAGGGTATTACCTGT CATCACTTGAAGTGTTTCCATTT

Sequence 5725

Sequence 5726

Sequence 5727

Sequence 5728

TABLE 1A 486/599

Sequence 5729

Sequence 5730

Sequence 5731

AGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTATATGTTGG AGTTAATGTGCCATCNCTTNTACACACACACACACACACACACACCCCTTACCTATTTA G

Sequence 5732

Sequence 5733

TABLE 1A 487/599

Sequence 5734

CCCTTTCGAGCGGCCGNCCGGGCAGGTACCAAGACAGAGAACCTGCTCGGGAGCTATTTC CCCAAGAAGATTTCTCGAGCTGGATGCATTTTTAAAGGAGCCAGCTCTNAATGAAGCCAA CTTTGAGCAATCTGAAGGCC

Sequence 5735

Sequence 5736

Sequence 5737

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCAGAACAAATACATAAAATAACTTCCCATA GAGAACAGGATNTANCAATAATAGCTCCTTAGATACTCAGNGGCATTCTGACTCCAATCA AGGGTCNTNGTTTNAAATTAATANTAGGTTAAAAAAATTAAAAACCCAANNNAATTTAAAA ATTATTTAATTTCCAAAGTTGGGNNTNCNTTTNTTAAAAGCCAATTGGTTGGAAATTGCA

TABLE 1A 488/599

Sequence 5740

Sequence 5741

TABLE 1A 489/599

GTTTTGACATTAGTTAGAAAATTCTAAATTATTCTAAGCAATGTAAACCAAGCCCCCAAA TTNGGTGAATTGAAAAAAA

Sequence 5743

Sequence 5744

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCATATGAGTTACTGTGGTCAACAGCTTGT GGAAGGTCTCGACCTTACAGACTTTCANAGGTAGGGGGAAGGTCTTGTTAGCGGGACAGC AGCAAGACCCACCCACCAGTTTAGACTGAACTGTGAACGTGTCACCAATTGAAAATCAGT AGCCATACCACCTCCCTACCTCCCACATGTAATGTGTTGAAAAAGCATGGGTAACGG TGTCCTTTGTTCTCCAANTATGNGATGAAGGGAAGAGCTNACCACACAAGCTGATANAAT NCTTTTCTGCATCGAAGNANCACTAT

Sequence 5745

Sequence 5747

Sequence 5748

TABLE 1A 490/599

CCCTTTCGAGCGGCCCGGCCGGGCAGGTACTATGAGGCAACTATAGGTATCTGCCAAAGA
TTTCAAATGGCATCCCTATCTGCCAACGAAACTTTAAGGATTATTGGATGTGCTAGATCA
TATGACTCAAGTGGCAGAGTAGCTTGCACAGCCAGACCTGTTGCAGTGACTTCTT
GGGCCCTACTCAAAACTATCAGCTTCTCGTGTCATTTGGTAGATGAGCTAGAGTAACATA
TCAACATGATTGATATGATTCCTTCAAAATATCTCCAGAGATGCAGTATTGNTTTTAGTA
TACTATCTTCCTGTGAGGAATCTGTTCTATTAGCTTCCACTTGCCCTTTCCCACCATAAC
ATTACCCCACTCCACAAGTTCAAGGATAAGCAATGTATTGGATTCTGCCAGATGCTGAGT
GTGCCTACTCTAAATATGCATTCAGGAACT

Sequence 5749

Sequence 5750

Sequence 5751

Sequence 5752

TABLE 1A 491/599

GCTTTTCAAATGAGATTTGTGATCTTCTAAAAGAACATACTTCAGAACAGGGATCTCTGA GGAAAAAAGAAAACCACTAAAAAGGATTCATGGTGATTAGTTTTAATTTGGCAAAATGGG GATGAAAGCATCTTTATGTAATAAACTAAAACACAACTA

Sequence 5753

Sequence 5755

CCCTTAGCGTGGTCGCGGCCGANGTACTACCAAGATAAAATATATTCAAGCGGNGTGGGA CTTTGNGACCATGAATTAAAGNTGATTCTNCACAAAATGTTTNGGCNTTCTCTATCATTT AAATTTGCNCGAGATCCTTTTANTTTNTNNAGACCANANCGATAANNCTTTTTTAAAACC AATAATGAAAAAGAAGTATTTTGAAAACAAA

Sequence 5756

Sequence 5757

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGAATAGATGAAGAAATTGTTTTTGAGTATA
ATATAAACATAAACAAATCTCTTAACAGCACGAGTGTCAACAAATGCTTTTCGGTTGTGC
AAAAACNAGTCTCAAAAAGGAGTGGGGACAANGGAACTGGACAAGGGAGAAATGAGCTAT
TTTTCATCTTCCAAANTGCCTTTCTGGCCACGGTCTTAACACTGCAAATGTTGCANNAC
TGGTGCAGCAGAGTTCATGCTGGGCATTGGGCAGCACTCCTTGTGGAACATGTGCCCGC
AATGGAAGACCACCACGCCTGAAGGCTTANCTGCATTCCTAAAACTTGAGAACCCTNAAC
TTCTNANCCAATTGGCAGCACCCAGCATTTCCACTTGAACCAGGATTGGGAAGCCACAAC
CACNTTCTCTCCACTGGGGTTAATTCCTGATGGGAAGAAAT

Sequence 5758

TABLE 1A 492/599

Sequence 5759

Sequence 5760

Sequence 5761

Sequence 5762

CCCTTCGAGCGGCCGCCCGGGCAGGTACCATATCTGTTTCTTATCTGCAGAGATCTGTT
TTCAATGCAGTTTTATTCTACTTCTTATTCTGATTTAAGATGGGATGATAGTTTTGACAA
AATTTGAAACTTAANNGGTTAAAATTNCTTGGNGTCCTTGGATTTTTTTTTCAATTTT
AACCTTGGTAAGNGAAGCCTTGGNTNTGCGTGGGTTGGAANTGAACCTTTTGGAAATTTT
TTTTTTTTTTAAANTNGGGGGGGGAAAAATAAAAAANAACCCCTTTCAATTGGNA
AGNCCAATTCCNTTGTCCTTAATTGNGAACCTTTCCTTAAGNCAAATTGGNNTTTTAAGN

TABLE 1A 493/599

CGCCATGTGATGGATATCTGCAAAATTCGCCCTTAGCGTGGTCGCGGCCGACGATCTCCT
TATTCTTATTAAAAAAGGCATGAGGNGTANNCGAGCACTATAAACCATGAATTGGAAGTT
GATGGTCAGAGAACAGATAAACAGAGTAATATGAGGAAATTTATGTCANGCTTGANAATG
ATANGGTTCACGATGCTTCAAAATAACTTTTATAAAAAACTTCCCTTGAAAA
Sequence 5764

CCCTTAGCGTGGTCGCGGCCGANGTACCCCTGATATAGAGTATTGAGATGGCTAGTTTAT
GTAGACACCAAAACCAATTTTCAGCTTTAAGAAAGAAAACTGAGTCATTCAGAGATCTTT
TATTTGAGGGGAAAATGTATGACCGTCACTACAAGANGCTAATCATTTTCATTTAAATGG
ATGATTTAAAACTAAGAAGTTTTCANGAATTTCAGACTACAATAAAAAAAATTCAGATTTA
AATCCTGCTTTCCATAGCTTCAATCCTAAACCAAGAGAGTTCAGGAATTTTANATAAAGC
AAAGATAAATTAAAATAAGACCCGTTACAACCACCAGCCATTATAAAAAAGGGCAGTGAC
CCAGATAGAAAGAGAAGCCTTTCCGTGGATATTTTTCTCCACCAATTGCATACGGTAAAT
TTTCCTAAAGGTAATTACCTTTTTTTGCAAAACCCATCCAAAATGAAGACCNGGNGGGGAA
ATTCTTCGCCTTAAGCCTTNCCCCATATTGNAGTTTAAGGGCCCATTATTTCCAAAANTT
GGGGGTAACAAAAGGAACCCTTTTTTTGAGGGGTGATTTTGNGGACCAACCCAGGGGGCCATG
ATAAATCAANNANGAACAAAGCCNCCTNCTTTCCAAAGAAGCCTGCAACCATGATANCAC
TGNTTTCTTGATTTCATACTGAGATTTGGCANTATNGTATGCNANTTNTTTTNAAAAAA

Sequence 5767

CGCCAGTGTGGATGGATATCTGCAGAANTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTA CAGATGTGATATTGGAAGAAAAAAGATCAAGCTTGATGAGGTTAGAGATACCCAGGCCCT TTGGACTTAAAGATCACTANTGTCTAAAATTCCATCGATGGCATTTTCAANTACTTATAA GGTAAANCTTTTCCCTGGGAAAGCTGGGAATTTTGGGNAGAACAGGTTTTTAATTCNAAT

TABLE 1A 494/599

TCTTGGAATNTAATTTGGGGGCCTTTTTACNGTTNANTTAAGGGTTCCCTTTTAANGGGG AAAGNCCANGCTTTTAACCCCTTGGAAAA

Sequence 5769

Sequence 5770

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGCGGCTTNCTTGATCCTTGCCA CCCGCGACTGAACACCGACAGCCAGCCTTCACCCATGGAAGATTGCNTGATGGTTCC TTATGCTTGGCTGNGCNCTCNTCTTCNCCCAAGTCACCTTGTCTTAACTGCCATNGGCC TTCTTTGGNNCNTNGCTCCCTCTTTTAA

Sequence 5771

Sequence 5772

Sequence 5773

Sequence 5774

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTACTCCCGGACCGGCGCGTGAAAGTCGTG
ATATCATCGTTGAACTATTAGCTTTGAAGTTTAAATCCAATGGAGAAGACTCAAGAACAG
TCCAAAGAATTCTTCTAGAACCCTATAAATACTTACTTCAGTTACCAGGTAAACAAGTGA
GAACCAACTTTCACAGGCATTTAATCATTTGGCTGAAAGTTCCAGANGACAAGCTACAGA
TTATTATTGAAGCGACAGAAATGTTGCATAATGNCAGTTACTTATCGATGATATTTGAAGA
CACTTAAAACTTCGACGTGGCTTTTCCAGTGGCCACACATCTATGGAATNCCATCTGTCA
TCAATTCTTGCCAATTACCTGTATTTNCTTTGGCTTGGAAAAAAGTCTTAACCCTTGATC
ACCCAAATTCCAGTGAACTTTTTAACCNNCCGCNTTTTTGGNACCTCCATCANGGGCAAAG
GCCTANATATTTACTGGANGGATAATTACCTTGTTCCCACTGGANGGANAATNTNAAGCT
TTGGNGCTTGGGAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 5775

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATGGCTCACTTGTGCCCAGAGGGAGAATA

TABLE 1A 495/599

AAGCCATGTCGAAACTATCTACGATTCCTTGAGTGTTTTTCCAGCTACCTGCCACTTGCC CACCCACTCCCCTCAGATCTCAGTTAGAACATGACAATTGGGCTCATGAACAGGATCCTG AGTGGTTGCAGGTGAACAAGCAGTTGGCACAAGGGCAAAGTGATCACATCCTGATTGAGT GGCTATGGACAGCCATACAGACTGTGTGGAACAACGCTGGTGAAATACCCAAACCGTCCC AGAACAATGCCTGGCATGCAATAAAT

Sequence 5776

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGAC
TTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTTANGACAACTAGTCT
AACTGNAAGTGAAAAACNGACTGTNGGTAACCAATGGTGAAGGACGATCATGATTTGAAC
TAAAATGGTATNAACGGACATANTAAGGANTTGAGAAATAAAGAGGAAGTNNTNNTTGAT
TNTGGATATGTTTTGAGAGTNAAACAACNTAATTTNCTGAGAGTTTGGATCTAGAGTGCA
ACAAACGTAGAGTCAAAAACAATTAACTTTTTGGTTTCAACTACTTGATGAATGGTAATG
CCACTAAATAANACAAACCAACTCTTGAAGGATGAAAAATTTGAGA
Sequence 5777

Sequence 5778

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTGCCGGTATGGGTGACCTGGGCACAGGCA
AGGCCATCATCACACACTGTGTGCACCAGAACTCCTCTTGGCATCTCCAAGCCAGTT
CACCATTGTGTGAACTGTGCACTGAAGGAGCTCCACTGGGACTCAGAGGCCTTGGCACAA
CTGCAGCTGTGGAACATTGCGATGAGGAAAAGATTGGGAAAAATGACAAGAGCCCATTGTCT
GGAATTCATAGGTGCATTGATTGTCTTCAGTATCACCAGCCCAGCCCCATTTGAAGCAGA
GCCAAAGTGGAAAAATGATTTGGACTAAACGTTAACTCATGGCAGAACCAGCTTCTGTGGT
TCTGTTGGCCAAGAAATGTGACCATGGGAGGATGAATGCAGAAACAGCAGCCTCAAGATG
GGCCAGATCTACATGGAACATAGTTTTGTAGGATAAATTGAAACATCANCAAAAGAAAAT
GTGAACTTTTGATGNAAGCCTCCANGTGCCTGGATGCCANATAGACAAATTCCAGGAATT
TTAGG

Sequence 5779

Sequence 5780

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCACAATGTGATTTTTGTATTTCGAAAGCTT GAATTGTCCCCTGAGTGTGAGAGACAGAGGGGGGGGCGCTCCGATCAGCGGCGCTGCTGTTC ACCAGGCCATGAAACTCCTCCCAGGCCTTGATGCTGTCGGTGTGAGTTTTGTATTCCATA ATGGTGTTGGGAGGTAGGTTAAGCACTCGCCGAAGTGTGTNCCGGATTCGGGCTGTGGTT GCTTGGTCACTGGCAGTCTTATTCCATATTGAAATAATGTCTTCNTGAAACGGACAAACA

TABLE 1A 496/599

CCACAACCCCAATAANTCTCCTNCCCAACCATGAACTGTTTCCCCCAGCATGGGCCAAAA TGAAGATTCTCCCAGCAACCGGGAGGCCAAGCCCTTCCCNCAGCCCGAATNATCCACTTG CCACCATTTTTATTTCATCATCCTCCCACATGGGGTTTAATTCCTTTC

Sequence 5781

Sequence 5782

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCAGGCCCATGTCCGGCCGCGAAGGT
GGCAAGAAGAAGCCACTGAAACAGCCCAAGAAGCAGGCCAAGGAGATGGACGAGGAAGAT
AAGGCTTTCAAGCAGAAACAAAAAGAGGAGCAGAAGAAACTCGAGGAGCTAAAAGCGAAG
GCCGCGGGGAAGGGCCCTTGGCCACAGGTGGAATTAAGAAATCTGGCAAAAAAGTAAGCT
GTTCCTTGTGCCTGAGGAGATGGTGACCCTTTATTTCATCTGTATTTAAACCTCTCTATT
CCCTGCCATAACATCTTTTGCCACGTATAGCTGGAATTAAGTGTTGTCTTGGAGCTGTTG
TACCAACTCCAAACCTNTGATCTCTTGACAATGGGAAGTAGAGCTGAGCCTTCATTTTT
TTCATCTATAAAAGTGGGAAGAATAAATTGTATTTGCTTATTTTGGCAGGGCTCCCCAAA
AACTACTCCCAGGCTCNGTGAGCCCCTACATTANACCTCANCAGGACTCGGGAAGTCTTT
TATTATCTANTGGTTTNTGGGNGTATTTACCAATNGAAAGGATTTTNAAGCAANATTCAG
NCAAAAAAAAAAA

Sequence 5783

Sequence 5784

Sequence 5785

Sequence 5786

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTATACTTTGGCAGCTTCTTCACGTCGGTC CTCTCCGCGCGCGGGTAGGAACCGTCCACGGCTTAAAGAACCTCCTCACCAGCCATACTT CCCATTGCCTCCAGTTGTTGCACGGAGGGGTTTCACATCATATTTCAGAAAGGCTCCTGGA AAGAAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGGATTGTGACTTGGCTGCTGTCA

TABLE 1A 497/599

Sequence 5787

Sequence 5789

ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCGTATTACTTTTCTATTGCTTCTTTACC
AAATAAATACAAGCTTTGCAGTTTAAAACAACAGAAATTTAATTTTTATAGTTCTGAGGG
TCAGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGAC
AGGGCTGGTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCTCT
AGGGAGCCTGCATTCCCTGCCTCCTAGTGGCTTCCTCCCATCACTCGAACCTCTGGTTCC
AGCCTCAGGGATTCCTAATGTGACTCTGACCGTTTCATCTCCCGTTTATGAGGACGCTTC
TGGATTGCTAAGATCATACGGTGACACTATGGAAGTTAACTTGAAGATTAAAACCCTGAA
AAATNGAAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTAGAGTGGG
TGACATTTTCATCCCTTGAAAATGGA

Sequence 5790

Sequence 5791

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TABLE 1A 498/599

AACTGNGTAATAGTCTTTCTTATGACTCAGTAAAGCATGAACTCCTTTTCTACTTTTGCC
AATTAAAGGAAATCAGAAAAA

Sequence 5792

CCCTTAGCGTGGTCGCGGCCCGANGTACAGGTGNGCNTCACTAAGGGGCANGCNGTTCAT ANNNAAAAAAANATTTTTTNNTTNTTNCCGNGTGGGGCAGGGGACGCCCGTTAACTGCA NATGTCTGCTGAGCATGTCCAGGGTGGGTATGGGAGCTGGGATTCATCATTTTGTATGAG ATGCCTGGCTGCCATAAGGTTGACATGACCCGAATTAGGGCCCCATCATGAC Sequence 5795

Sequence 5796

TABLE 1A 499/599

Sequence 5797

Sequence 5798

TGATGGATNTCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCATTTCCTGA
TAGAGACTTGAGATCGTTACCTTTGAAAATGGAACCCCAATCACCAGGTTGAAGTAAANA
AACTGCATGAAGGGGCAGCCTTTTGAAGTTCCCNCCCTTTTNAATTTTTNTNCNNACCNT
TTACGCCGTAAAATGGNGANTTGGAGGAAAGCCCCNTTTTGGACTTTC
Sequence 5799

Sequence 5800

Sequence 5802

Sequence 5803

Sequence 5804

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCAGTGGTTACTTGCATTGTGTAGTGTTTTT CAAGAGGTCTGGGTCTTAACAAAATGTTTTCCTTTATCTCAGTGCTCTTCTGCCTCTTTT TGGTGGTGTCCTTTTGAAAAACAATACACCTTCTATTCCTTCATTTTGGGTTACACCTTT

TABLE 1A 500/599

Sequence 5805

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTTTNTNTNTNTCNNTNNNCNGTTTGCANT TTTTGTTCTTTANAATTNTTTNACANTANAACATGTTTTCCACCATGTATTATTCATN TATTTAAGAAATATTTATTGAGCCTNTGTGAAGGGACAGGTACCAGNNATGNNCTNTCAA CAATTAAGGATGCCT

Sequence 5806

Sequence 5807

Sequence 5808

Sequence 5810

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TABLE 1A 501/599

Sequence 5811

Sequence 5814

TABLE 1A 502/599

ATGGGAAAAGTNAAGGCCAAAATAATCCTATGGNGAAAAAAAATCAACNNGATATCTNTG CNTNANAAAAAGGCCCNAGACCNGTGAATNTNTNAGGGNGATAAAGANNTGGNTNNAAAA GGGGG

Sequence 5815

Sequence 5816

Sequence 5817

Sequence 5818

Sequence 5819

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCCGATTGGAGACCGTAGAACCGTTACTTGTCG AGGGCCTTAGCGGCCGCCGTGACCCTCTCGGGGATCCCACGATGTTCTTCTACCTGAGCA AGAAAATTTCCATTCCCAATAACGTGAAGCTGCAGTGTGTATCCTGGAACAAGGAACAAG GGTTCATAGCATGCGGTGGAAAATTGAGAGTTACTGAAAGTTTTGAAATTAGAGACGCANA CAGATGATGCAAAATTGAGGGGCCTTGCAGCCCCCAGTAACCTTTCTATGAATCAGACTC TTGAAGGTCATAGTGGTTCTGTTCAAGTTGTAACATGGAATGAGCAGTATCAGAAGTTGA CTACCAGTGATGAAAACGGGCTTATCATTGTGTGGGATGTTATATAAAGGCTCTTGGATTG AGGAGATNATCAACAATTCGAAATAAA

Sequence 5820

Sequence 5821

TABLE 1A 503/599

GCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTAGCGTCCTCGCNNNCACTATACATT GCNATTTATCCAANAAGCTGATTTTCCCTTCAACAATTACCTTAACATGCTATACACTGT TTCTGGTAACAGCNAGTATGAGGTTATCACATCCTGNATGGAAAACATGCCANAATGAAA ATGG

Sequence 5823

Sequence 5825

CCCTTCGAGCGGCCGCCCGGGCAGGTACATGATAGGGAGGAGTGAGGCAGGTGGGCACT GGAGGGCTGTTTCCTCTGGCACAGTTGAACTAGAGGGTCACTTTCCACTCATAATTGGTT TCCTAGGTCTAAGTCACCACACCTGGGGCTGAAGCAAGTCTTGCCTGTGCACCAAGCGTG GCCTTGGACCCTGGAGAGATGCAAGGCTCAGTTCTCCAGTGTTGAAGTGGAAGGACTCCC AACTGAAGGAGATCTTCCTCTCCCCACCTCCAGCTCTTTTCCCTTACAAATGACCAGGGT GCAAGTCGAGAGGCAGAGG

Sequence 5826

Sequence 5827

TABLE 1A 504/599

Α

Sequence 5828

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAGCANACGCCCCCTGCTAGATGTGCT GGATCATGGGAAAGCATTTCCATTTGNTACTAGATTGTTCAGAAGT Sequence 5829

Sequence 5830

Sequence 5832

CCGTGCAAAGGTAGCATANTCACTTGTTCCTTAATTAGGGACCTGTATGAATGGCTCCAC GAGGGTTCAGCTGTCTCTTACTTTTAACCNGTGAAANTNGATCCTGCCCCTTGAANAAGG CGGGCATGACACANTCAAGACGAGAAGACCCTATGGAGCTTTAATTTATTAATGCAAACG GTACGCGGGTATACCCTTTATGTTCCTGACTGATGCGCAGAACTTTGGGGGAAATCTACA GCAATATACAGGTTTGCAAATGCTGATGACACAACAGCAATCCTCTCCTCTACGTTGGAC TTACTGTTGTTTTTTAATTATTATTGGAATGGGAT

Sequence 5833

Sequence 5834

TABLE 1A 505/599

AAAGTNCTCGGTAAGGAACTAAGTCCAGTCGCATGTAGAGAGGGGGATCCTGGCCTTCTGGCTGCTTCCTTACCTAGACCCCACACAAAGGGTGGTGGGAGGAGGCGGGGGGGAAATCTGGAGAAAACTGAGATCTAGGGCTTGTGCAGCAAGAACTCAGCATTCTACTTTGCTTGTCCTGTAGGGACAGCCCAATGCCTNGGTTTNG

Sequence 5835

Sequence 5836

CCCTTAGCGTGGTCGCGGCCGAGGTACACACATTTTATATATGAAAAGAATGCTGTAGA
CTGACTTGCAAATAACATTCTAAGATTCCCATTACCTTTAAGAGGAGTCAGCTGTCATTT
TGGAAAAATTAAGATTTCAACAATTTTACACATATTTTGAAAATAATTTTGATAATGAAA
AATGTTCAATCTTAAATCGTGTAAATAAGTAAATAAGAGAGGTAAAATAAAGAGCTTGATG
TTTATGTGATATTGAGAAAAAAATCTTTTTTAAAAGTAAAATACAGATTAAAATACAACTT
TGTGCTTTAACTGAAGGGTGTCCCTACTCCCTGATGTGTTTGAGACTGTCACAAACCTGA
ACCCATTTGGACAATACATGAAATAATCATTTTGCATCATTTCACTATTGGGGAAATGAT
AACTTCTTACATTAAATGAAAAAAGNNNANNNNNNNNNAANAAAAGTACCTGCCCGGGCGGC
CCGCTCGAAAGGG

Sequence 5838

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTGTCAGTCATGTATCATTATATAGTCTGTT GATCTTTCCATTTGCAAAAAATTAATAGTTTTCCCCCACAAATGTACCTGCCCGGGCGGC CGCTCGAAAGGG

Sequence 5839

Sequence 5840

AGCGGCCGCCGGGCAGGTACAAGCTGATCTCCCCGCTAAATGAAAAAGGGCAAGATACT GGGGCCACCATTGACTTGGTGATCGGCTATGATCCGCCTTCTGCTCCACATCCAAATGAC CTGAGCGGGCCCAGCGTGCCAGGCATGGGAGGAGAAGAAGATGAAGGTGATGAA GACAGGTTGGACAATGCAGTCAGGGGCCCTGGGCCCAAGGGGCCAGTTGGGACGGTGTCG GAAGCTCAGCTTGCTCGGAGGCTCACCAAAGTAAAGAACAGCCGGCGGATGCTGTCAAAT AAGCCACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGACAGTTAAGTGGTAAC

TABLE 1A 506/599

AACATAAGGCCTGTGGTCAAAGTTCACGTCTGTGGCCAGACACCCGAACAAGAATNAAGAGAGGAAACAACCCTT

Sequence 5842

AGGGCGAATTGGGCCCTCTAGTATGCATGCTTCGAGCGGCCGCCAGTGTTGATGGATATC
TGCAGAATTCGCCCTTTCGAGNCGGCCCGCCCGGGCAGGTACAACNGCCAAAACCACCGA
CTGGTCGTANGCAGGTATCAAAAAGGGGTCTTGGA

Sequence 5844

TTTCGAGCGGCCGACCGGCAGGTACAAACTGTTNAATTTGTCAATAAGTGACAAAAGAA
TTNCACAAAATCATGGAACTCTCAAACTCAAGTAAACCAAAAAAATAGTTAACCAAATAAT
GATCTCCGTCAGACAGTGATTTTGAATGAGAGATCATATCNGTAAGTTNAAAAAGTAAAA
TTNAAATGCAATGNGATNGAAATACCTCTGAGTTTTACATANACTCCTTATNTNTTATAA
TAAAAGAGAGGATNNGTGTGNNNAANTTNNNAGACATTTCANAGGTCNTACTGNAAATNN
ATNCTNTNNTATGTNGCNTAACTGAAGGAACAAGTNTTTTAAGCCTCTNAGGCACATNNT
GACACTNATGCCAGGAA

Sequence 5846

Sequence 5847

TABLE 1A 507/599

CCCCTGAAACACATGGTAGCTAGGGACTGAACACAGGAACCGTATGACAGCAGCACAAAC CCCCAAAGGATGTTCCTGCCTTGTGGGCCCCTGAGCCCCTTGGGAGACTGAGAATCATGA CCAGATTCATCCAGAACTGCTGCAGTGTTAAGTGAAAATCCTCTGTAGTTGTTCTGCANA GGAACCTTCCTTCCATTAAAAAATTTCTGCTCAATACAGAATGGTCCACATCACCCAAAA GTGCACTGTTGGAGATGCTGTGAAAATTA

Sequence 5848

Sequence 5850

Sequence 5851

Sequence 5852

WO 01/070979

TABLE 1A 508/599

CCCTTCGAGCGGCCCGGGCAGGTACAGTTGCTCCTTCTGTAATTCTTGCACTAAA ACTCCATTAAAGACCATCAATGAGCCAAATAGTGTGCTAGCCTTGAGGATGAGTTCTTA GCTACTTAATGATTCTTTCTTCTGGAAATCTTCTAGTGGATAATTTTTAAAAGCTTCTT TTAAACTGCTCAGTAAAACATTGCCATACATTAACTCTCCATTTCTGCATTAATTTCATT TGCTGGAAAGAAATTATTTTGTTAATGAACCAAACCCAGCCATTAAGTTATGTGAATTCA CCTTCTCTAGACACATTGAGGTATGGCAGAGAAGACACATATTCCCTGGCCTAGAGTGGG CTGACAATATTGTTGCCTCCCCTAAATTGACTCAATCTTGAGAACCACATACTGCAGTGA CAAGTTGATCATGGATCAAGAAATATTTCTTTTTCTCCTANAGGAAATCCCTCATGGCAT TATCATTCCCTAAAGGCAATGANGATGTCCCTTCGCTCAAATCCTAAAGCCCCC Sequence 5855

TABLE 1A 509/599

Sequence 5858

Sequence 5859

Sequence 5860

Sequence 5861

Sequence 5862

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGACTCTGAAGTGAAATGGATTTT CAGAGGATTGAATTGGCTGGTGCTGTGGGAAGCAAGGAGGAACTTGAAGTAGACTTTAAA AAACTAAAGCAAATTAAAAACAGGATGAAAAAGACTGATTGGCTCTTCCTCAATGCTTGT

TABLE 1A 510/599

Sequence 5863

Sequence 5864

Sequence 5865

Sequence 5867

TABLE 1A 511/599

GTCTTGCTTTGTTATGCAGGTTGGAGTGCTGTGGCACAATCTTAGATCATCACAGCACTG
AACTCTAGGCTCAAGTGATCCTTCCTGCTTCAGCCTCCCCAATAGCTGGGACTACAGGTC
CGGTTGATTTTTAGAATTTTTTTGTAGAGACAGAGTTCTCACTATGTTGCCCAGGTTGGT
TTTGAATGCCTGACCTCAAACAATCCTCCTGCCTCAACCTCCCAAAGTGCTGGGATTTCG
GGCGTGAGACACCATGCCTGGCCAACGTTAAGCATCTATTCATGTTCTTACTGGCCATTT
GNGGATTTTCTTGCCTATCCAAATTCTTTACCATTTTTATACCGGGATTANTTGNCTTTT
TATTATAAAGTTGGAAAGAAGTCTTTATATATTCTAAAAATATTCCTGCTGAACCCCAT
AAANANACATGGTTTACAAATATTTTCCCTCATTTTGAGGGGGTATCTTTTATCCTTCACT
TTCCTGACAGGGGNCTTTGAAGTATGAACANTTTTAAATTTTGATGAAAAAGCCCAATTTA
ATCTATTTTTTT

Sequence 5868

Sequence 5869

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCTGAGAGATTGGGAGAAGCTTTTGATTC
TCAGCTGGTTATTGGAGTAAGAGAATCCTATGTTAACCTTTGTTCTAATCCTGAGGATAA
ACTTCAAATTTATAGGGACAATTTTGAGAAGGCATACTTGGATTCAACAGAGAGATTTTA
TAGAACACAAGCACCCTCGTATTTACAACAAAATGGTGTACCTACACAGGGCCCCTACAG
CATGGTATCGTCTACTCAGGAGGTTCTTCTGATACGATCTGTGACCTGTTGGGAGCCAAG
GGAAAAGACATTTTGTATATTGGAGATC

Sequence 5870

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTATTCCAGTAAATGCTGTAAGATTATATT CCAGATTTTTAAGGAAAAAAGTTAAGTCAAGCCTGCAAGATCAGCTTTCTCAAGTGTCTA CAATGCCAGTATGAAAATAAAAAAATTAAGTTACACTGATACATCCAAGTTTTTTTAATA TGCAGTGATGAGCACAAACATTAATAAGAGATAAAAATACTGATGCAAATAACACCCCCAA AGTAACAAATGCAATTATTTTCCACCATTTACAATACAGTAGTTACAATGACACTCCAAA CAGAAAAGCAAAGTAAAAAATCAAAACCCCAATTTCTATTCATGTAATTAGACTTATACA GAAATTAGAAGCTAAATAACAACTAGTTAATCACCTAATTTCACAGCTATCTGAAGTGG CAATCGTTATATAGCAGCTTATCTATGATACATTCAAGATAAAATTAACAATTTATAC TTGCCTGTAAGCTAAAAACACCAGNCTCAATTTAATACCCTTTCCTTAAATTNCAACTTTA CACTACAATATACTTGANGGCTATGCAAAAAAGGAACTTCCNTTTATATAAGGAAATGGAT GGATTAAGTCTTTGGGGGCTGNAAAAAGCCAACTTNTTTTAAACCGAACTTAACCACTTCC ATTACCACCACCCA

Sequence 5871

Sequence 5872

TABLE 1A 512/599

GATTCAAAAAATCTCTAATTTAAAAATTAAAG

Sequence 5873

Sequence 5874

CCCTTAGCGTGGTCGCGGCCGAGGTNCCTTTCTATATACAGATTTTAAAATAGAAGTTTT
TTTAATATTGAAAACAATCCAGATTTGATGGAAGACACCAATCTGCAGATTCATAATGAAC
CTAAATCCATGATAAATCTATAGCTAGACACATATAATAAAAACTGCGTATCTCCAAAGTAA
AAGATATTATCTTAGAACAGCTCAAGAGATGTCAGTTCTAAATCTACAGCTCTAAGGACA
TAATTTCAGAAGGTATAAAGAATTCTCCTAGAAGGAACATCTGACACACAAGAAAAAAGG
TAAGCCCCCCATGTCCCATCAAAAAAAATAAACATTGACTATATAAAATACTAATAATT
CCAATTTGGAGATTTAATAAAGAACTTGTGGAATTTAATTAGAATTAATGTTATTTCAAT
ACCTTTGTGTTGTTTGGAAAGAGGGGGTAGCATTTTTAGATGTTTAAAATACAAAAGG
ACTTGTACATTCACATTCCAAATCAGTNAAGGGAAAATATATGATTAAATAGAAAACCCA
ACTGATCCCCAAAGATAGGAGGAGAGATAAAGGNGGGAAAGAAGCCCACNTNGGAAAAGA
AATTTTTTAAAAAATAGGATGGCAAAAATA

Sequence 5875

Sequence 5876

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAGTCCTGTTTGTGCTAAGATTCTTTCAAAT
ATACTCCTAATTCCACTTATCAACCAAGTTTAAAAGAAAAAAATATGAAAATAAACTATA
TTTTAAAGNTGNCANTGGTTTCTGCTTGAAAATTGATCTTCTTTTTACAAACCTCCTAAA
AACTTATTTTCTACCTTAAATTGAAAATTCACCTAAGTCACAGCACTTATGTTTAAATAA
GGACCCTCTGTTGCTCATTTTTTGACATTTTTGAAATCCAGAGTGACTCTGTTTTTCTTA
TGCTTATTAAGGCTATTATTACTATAATTATTGGGATAATAAATT

Sequence 5877

TABLE 1A 513/599

Sequence 5878

Sequence 5879

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCTAGGACCATGCAGGATGTGGGCA
AACAAGAGGAGAAGGCTGCCTCTCATGTTCCTCCCCCTCGGTCCCCACGCTTAGGGAGAT
GTGGGGCTGGCGATGGGAAAGCTGTATGGCAACGACTTCAGCCAGACCACCATCTCACGA
TTTGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAGCTCCAAGCCCCTGCTGGAGAAG
TGGCTGAATGATGCAGAGTCCTCTCCGTCAGACCCCTCAGTGAGCACGCCCAGCTCCTAC
CCC

Sequence 5880

CCCTTTCGAGCGCCCGCCCGGGCAGGTACAGGTAGCATTTTACCCCACTTTCCTCTGTC CAAAGCGACATACAAGTAACGGGCCTGCTTCGTGCTGCATTAGAACAGGCATAAAAAGCA AATCATTTACTTTCCGGAAACAGAGTCCAACTGCACAGAGCATTCGCGGTTATTCCCTTG

TABLE 1A 514/599

Sequence 5884

Sequence 5885

Sequence 5888

Sequence 5889

TABLE 1A 515/599

CACACAGAGAAGGACTTAAAACATTTCTAATCTCCTAGTTTATATACAGTGTGCAAAAT ATAAGTAAGTATATATTGAAAATATAAAAATATTTCATATATGTTATCAGGTGGAAATTTA GAATCCAAATTTTCTTAAACTTTAATAACTTGTCTAACAACTCTCTAATAGGGACTAAAA ATCAACTCAATATATCATACATTTACACTTACAAAGAGTCTTTAGACAACAACATAATTTTTG GAAAAAATAAAGCAAATTCAACTTTATTGGAGTTATTGGACAGATCAGCAAATTGTTATTT TAAAAAGT

Sequence 5890

Sequence 5891

CCCTTCGAGCGGCCGCCCGGGCAGGTACTNANAATTTATTAACNCTTCTTTANTACAGT GGAACANTTNTGCCCATGGGTCCCAGAACATTGGGACNATGGAGNCTGGATGNATGGGAA AGAATTGNCAGAGATTTNANNANGGCGCNTAACTGAAGGAGCCAAAATGNCATTNNNTGN NTTGGTAAAGAGTGGTGTTGGANATAGGCACGCGTCTGNGAGCCATTGCTAAANAGAT GNTGANGCNGAGGTCATGTGNGGGAGAGGCAAGGNGACTATNNAAAAACTNACTTCACAN TCTTNATGTGAGGGACAGCGANCCTACTGGAACTTAAAGAACAAGAAN Sequence 5892

Sequence 5893

CCCTTCGAGCGGCCCGGCCAGGTACAGGCTGTGATACATGTGGCGATNGATCTTC
TTAGATTCACGGCATNNTCTGATCATCCGGCGCATAATCCCATCNGCTCATCCATGNGAC
CTTCTCTGGCATTCGGGCATTGGCTGTACAATGGGGACGCCTCANACCCTTGCCACTCTC
TTCAGAAATCATCTCTGTTACAGACTGTTCCTGANGNNCCNACATTAAANAACTTTGTGG
AATNCNTTTGCTATGGCGACGGCCACCTGGTCTTCTATTACAGCCTTCTGAGTTCAAAGT
AAAACCAAAGGAAGGCAGGACTCTGCGTGGCTGATCTCNGTTAACTGTCACTCTGATCTT
TGGATAGTCACTTATTCCATTAGGAGATTTATTACCCAGTTTCAGCATGTNGNTCCAGGA
TCCAGAACCTGTCAGTTCACANGATGAAGAGTTCCAAAATACCTNTCCTGGAAGGGGCCN
CATTCNGNGTTTCATTACAAGCAAAATTTCCATNGGCTTTGTGGGCAGCTGGAATGGGAA
Sequence 5894

TABLE 1A 516/599

Sequence 5895

Sequence 5896

Sequence 5897

CCCTTAGCGTGGTCGCGGNCGAGGTACGTATGTATAAAAACCGTGCCCTTGTTCACTGCC AACACAACATCTGGGTGGACATGAACTCATTACAACAAATCTTATGTGGATGTTGTAAGA AGTCACTCAATGTCTGTGGATTTAATAAGTCACTTCACACCACAGAAAATATTTAATAAA TCCAAAAAAAGGAAAGAAGAATATNACCGACAGAAGAGGCTTCTGTCTCAGTTCTCTGAAA CTGAGTCCCCCATAGGAAACTGGTCCCAAAGTTCTCGAGGGGTCATTGAAGAAACTTCGG

Sequence 5898

TABLE 1A 517/599

AAAA

Sequence 5899

Sequence 5900

Sequence 5901

Sequence 5902

Sequence 5903

TABLE 1A 518/599

Sequence 5904

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACAATGGTAATGAGACAAATTATCA
AGAAATTGGAGCTGGGATTCCTTAAAGAAAACAGAGAAGATGCCAGACTCCTTNTGGGGG
CAAAANCTTTGTTTTTTTNCTTATTGGAACCCCTTAGGANTATTAAAACAANGTTCCTT
NTCAAATCTTAAAACCTCCNTTGGCTTNCTATAATTTTTGGTTTTCCTGGATTTTTTTT
TAAANCTTNGAAAATAAGGTTNATTTATTTACNAGGGGGGCCTTACCTCNTTTGGGGGAG
TTTTAANAAANTTAANNAAAAAAGGGGTTGCTTTTAANTAACCACCTTCANAGCCAAAAC
NATTTTTTTTTGGTTAANCCAANAGNTTAAACCNCCCNCTTAAAAAAAGCCNTTTTNTTGNT
NGGGCCCCTAAGGTNCCCCCAATGGGAATTTTCCTCCTTCTTTCCT

Sequence 5909

TABLE 1A 519/599

TTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGTG TGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTTGGAGT TTCTCCCTTCTGGTGGGTTTGGNGGTGTCGCTTGACTTTCAAAGAATTGAAGCCCGCAAG ACTGTCCGTGGGTTGAATCCNTTGGTANCCTC

Sequence 5910

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT ANACTCCTGAAAAAGAAACCAGAAAACTTTGTCTGGTTGTGAAATTACACACATAGGCTC AGAAAAATTCATCTCTGTAAAAGGTTTGAGAGACCGCCAGAATCTCTAGCTGGGCTGAT TGGTGAAGATCTTTTCCATCCAAAACCAGTCTGTAAAGACTGGAAGAGGTGACCGTTTA TTCAAATACAAAAATTACAACAAAATATAAGGCACACAAACAGGGAAAATATGGTCCAAT CAGAAGAACAAAATAACTGTCCGTAAACTGACCCAAAAGAAATGGAGATCTATGAATTAC CTGACAAATAGTTTAAAAGGAACATTTTAAATTAGTGCACTACAAGAAAAACATATACAA TGAAACTGTGAATAAAATGAGAATATCAATTAAGAGATGGGAAACTGTAAAGATCCAAAC AGGAATTCTAAATAACTAAACAGGAATTCTGAAGCTGAAGAATCAGTNACTGATTTGAGA AAAAAATTATAGGGGATCACCAGCNGACTTTATTTAGCCAGANGAAAGAAATCAGCAAA CTTAAAAGCAGGTCANTTTGAAATTATTGGGTTAGTGGACNAAAAAAAAA

Sequence 5911

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCAGCCTGCATTAGTGAATTCTTTATAACTCA AAAAAAGATAACTCCCTCATTAAATGATCGAAAGCATGGAATGGGGGGAAGAGGGGCTAT ATAATTTATTTCATGATTTAATGGAATTTTGGCCCTAAAACATAAAAGATAATACAGCTT AAATTTTTAAAAAAGAAAAGAAAAAGGAAAACAAAACTGTAAGTTTCCCTTACATATGAAA CCCAACTAAACAATATTTAGATCAAATACACTGACCTGCCTCCTATGTAGATCAGCTAGC CTCTGAGGGGGCAAAACCACACTGGCTTCCCCATTCCATGTCCCCACAGAAGAATAACAG CTCTCTGTATTTGAACCCTGCTTTGTGCTCTACCAGAAGTTCCCATTTCATTAGCTGCTC CCAGCAGCCCTGTGAGGTGGGGTCATTGGGGTATCCTAATGTCTACTTTAGGGATGAAGA **AAAATGAAA**

Sequence 5912

GTGGTCCGCGGCCCGAGGTCAAAATATTGGGGAATCACTAAAATGGATTAAGCCTAATTA CAAATTTTGATCATTTCTAAATAACTCACACTGCAGAAGTCTTTTCACAAGAATGAGTCA CATAGTTTCTCTCTATCTTGGTGCAGGGATTTTAAATCTTATTCAAAACAGTTCCTCTTC ACCTCAAAAACACAAAGCAAACCCAAACAATCCAATTCCTAATGTAAGTGTCACATAGAA CCCAGGGCCTGAAACAATATTTCATGCTAGTTTTCCTGCTATATGCAGAGAACAATTTAA GTTATTTACATTATTGAGAAAATCTATTTAACAGCCTAAAATCATNCTAAGGGCTTNCAT CAGCAGAAGGNTTGNTTAAAANGGCGTGAGCCAGCGCGTCTGCGAATGGGAACATNAAA GACTCTCCTCGGCTTTTCCTNTTNATCATCTTCATCTGGATCATCCATATCTGNTGGAAT CATCAATCCTNGCTTCCTCCTN

Sequence 5913

GCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTTTCTCTTTG AAAGATAGAGATTAATACAACTACTTAAAAAAATATAGTCAATAGGTTACTAAGATATTGC TTAGCCGTTAAAGTTTTTAACCGTAATTTTAATAGCTTAAGATTTTAAGAGAAAATATGA AGACTTANAAGAGTAGCATGAGGAAGGAAAAGATAAAAGGGTTCTAAAAACATTGACCGAA AAGGACTANCAGAGCCCCCGAATTAATACCCAATAGAAGGGCAATGCTTTTAGATTAAA AATGAAGGTGACTTAAAACAGCTTAAAGTTTAAGTTTAAAAGTTGTAGGTGATTAAAAAT AATTTGAAGGCGAATCTTTTAAAAAAGAGAATTAAACCCGAAGGTGAATTAAAAAGACCC TTNGAAAATNCATTGACCCCAGGGGAGAAATTGCNGTCATTTAAAGCCTAATTAACCCCA TTTACTTAAACCCAGACCAAAAATGGAAAGATT

Sequence 5914

TABLE 1A 520/599

GCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACACTACTCAGGTGACCGGTGC
AGTAAAATCTCAGACTTCACTACTGTAGAATTCATCTATATGACCAAAAGCCATTTGTCC
AAACCAGGATTCNCCCCCAGCACCAGCACCAAAGAAGTATCCGTCCAATTAAGAGGGAAG
GCTCAATAGCAGTNTCCAGATGAAGAGAGAGTGAGGAGGAAAATATGATTATNTTTCCGAG
GAGAAATCTAANGTAAAACCAACACTTGGATGAATAAAGAAGGAACCTGNGAGGATGAAA
GGAACTTAATNTGAAAGGCCTTCGAACTGACATGTTTCANCTTTTCTGAGAGCNGTGACT
CAGAAAATTCAAATTAGGAGAATTANTNGATTANTTCCTCAGAACCAGAAGCCCGGAGAA
NTGAAATTGGAAAATAAAAAATNCTTCCAAAAAAATAAATGGGAGNAAGAANGGAAAA
Sequence 5916

Sequence 5917

Sequence 5918

Sequence 5919

TABLE 1A 521/599

TTTAGAATAAATATACTTCATTAGTTAAGGCAGTTTTAACTTCACAGCAGAATTAAGAAGTCCTGCCCG

Sequence 5920

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACTCAGAGGAAAAAAGAAATTAAATTTTAG CTTTCTGGAGAGCAGCCCCTNTCTGGCACCATCAAACACTTCTTTGTTTCCCTTCAACTT GGAACTNTTNAAACANCAAGGGGTTGGGNAGGGTTTGGGCCATTTCTTTTTATCTTGGGG TCCATGTGAGTGGACAGAAATGGTGCNGGCCTGGGAAAGATCTCCCTCCTTTACACCCGC GTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 5921

Sequence 5923

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTNGTGCATATGAAAT GCTGTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAG GAAAGATTATATTAATGCTCATAGCCATACCATGNCTGAATATGGGAG Sequence 5924

CCCTTAGCGTGGTCGCGGCCGAGGTACACGCTCATGTGCTTCTGAAACAACGTGGTAAGA
CCAAAGACTAGATTTTAATGCAACTTAATTACAAAAGAGAAAGAGACAAAAGATNAGAGA
CTTTCTCCTCTATCTATCCCACACCCNTAAAAGAGCTTTGGGTTTTAAAAATACAGAAA
AGCACTCACTCAATGAAATTATATCACTCAAGTGATATTTTCAGGGCATGGCTACACAAA
AATAGATACCACTAAAAACTGGGCTATTTAGAGAAAGAGGCATATTTGTTTCATAACTCC
CTGACATTGTCTCATCTTACATTNCACTATATNTATTANTAAAANGGCAACATCATNACT
CTTTTTTGAAGAAGGCAAGAAGGAATTCATCTGATTAGATTAAATCAAGTATTCANGAAT
ACCATGTCTAAGGGGGTTCAAGTAAAAATAATGNATCTAAAATTATTTTGAAAAANGACAC
AANATNTTTTAGAGGGGCTG

Sequence 5925

TABLE 1A 522/599

Sequence 5926

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATAG CCAGAGAAAACAAGGATGGAGAAAAATCTAGGACAGTGTCTTCTGAGAAACCACCAGGCT TGAAGGCTACAAGTGATGAGAAAAGATTCTGTTTTGAATATAACCAGAGGAAAAAAAGGATG GAGAAAAAACTAGGACAGTGTCTTCTCGGAAAAAAACCAGCCTTGAAGTGTCTTCTCAGAA ACAACCAGCATTGAAGGCTATCTGTGACAAGGAAGATTCTGTTCCGAATATGGCCACGGA AAAAAAGGATGAACAAATATCTGGGACAATGTCTTCTCAGAAACAACCAGCCTTGAAGGC TACAAGTGACAAGAAACAACCAGCCTTGAAGGC TACAAGTGACAAGAAAGAATTCTGTTTCGAATATACCCACAGAAATAAAGGATGGACAACA ATCTGGAACAGTGTCTTCTCAGAAACAACCCGGCCTGGAAGGCTACAAGTGTCAAGAAAG ATTCTGTTTCGAATATAGCCCACAGAAATAAAGGGATGGACAAATACGTGGGACAGTGTC TTCCTCAGAAACAATCGGCCCAGAAAGGGTTATTTTAAAAA

Sequence 5927

CCCTTAGCGNGGTCGCGGCCGAGGTACATGGTTGGACAAGCTTTCTTGTCCTTGCAA AGAAAATGACTACTTACTAATATATTTTGGGAAAAATATTTGTAAGANTATTAATAAGCT TGNTTTCCNGGACCTATTTAAGAAAAAATACCACGTTTTAATGCAGATTCTGGCTATTCCA TCCATTCTGATTCAGAAAGTCAGGTAAGATTGAATAGATACNATACACACTATTTTAATT AGTTTTCAAATAGTAGCTAAAAAGTAGGAATAAAATGCAAAGNATTAATTGCTCTAAGGA AGTATGAAGTCTGTTGCTTTAAAACATCTTTTCTCCAANTAATAGTTTGTNAATAAACAA

Sequence 5930

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTAAATAAACATAATATTTGAATTTACTACA
ATTATCTGGATATGCATTTTCAAGTATAAGCAAGCATCTAGATATAAGTTACAGTGAAAA
TCTTATATTCTTTTGTCTCCCTGTTTCTTTGCACCCCTGTAATCTTTTTCTGTAACAGCA
ACTAGAATAATCCTTTTAACAAGAAATCAAGTCATATCACTCCTCTCTGCTTAAAATGGT
TTTTGCCTCATTTAGAGTAAAAGCCAAAGCCCTTCCAATAGGTCCATATGGGCCCTCCAC
AANTGGCCTCATTACCTCTTTGATCTCACCTTCTACCACTTTGCCCCCTTTGCTCATTCT
GTTCTAACCATACTAGCCTCCTTACTGTTCTTAAAACACTTCAAACACATTGCCTCCTAG
AGCCTTTACACTAGTTGGTTCCCCTTGCCTGGACTACTGCTCCTA
Sequence 5931

TABLE 1A 523/599

Sequence 5932

Sequence 5934

Sequence 5935

TABLE 1A 524/599

Sequence 5938

Sequence 5939

Sequence 5940

TABLE 1A 525/599

ATCAGATGATTCAAGACGCCCAAGGATAAAGAAAAGCCCATATTTCAGTGATGAGGAAGA
ACTTAGTGATTAAAATCTTGCCCCAGCCAGTNATAAAAATCCAGAATTGTTAGTAACAAT
CTTGAAGAGCTTATTTTAATTAAAGTTAGAAAAATTNNTNCTATCATGGTTAATACTATT
ATTGGCCTCCCAGAAAAAAGATNTTTTAAAAATTTATTTGAAAAGTCATTATTAGGGCTT
TATTCAATGCCTGGACCTGGTTNCTGGAGGGNCTTCTTGAAAATTAATTCTTAAAACCAAC
TTTCTTGAAAACCCCAAAAGTTGNAAGGATTTAATGGGTCCTTATATTNAAAAACTTTTC
NAAAAAAAAAAA

Sequence 5942

Sequence 5943

Sequence 5945

Sequence 5946

GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATCAATATGGNCCT AACATANAGNGGNCNANTNATATTTTGAAATCAACTCTAGGAAAAGAATGTTTTACTAAA

TABLE 1A 526/599

Sequence 5947

Sequence 5948

Sequence 5950

CCCTTAGCGTGGTCGCGGCTCGAGGTACCAACGGCACAAAAGATGGNGCTTGGCCTTGCC CANCTCTTTCCCTGCTACTTTCACTGTTGAGCTATATCTTACCTCTACTTNCCNTCANNC ATTGTNGGACTCTTTCACCATTCTGGATNTAGGAACAGTTACCTATGTGTGAANCTTA Sequence 5951

Sequence 5952

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAACAGGTCCATCTGGTTTTCTCATGTTTTC TCCATTCATTAAAAAAGAAAAATTAAGGTCTTTTATATATTTCCAAAGACAAGAAAAAA CTACAGTCTCTATTAGTAAGAATTCATGCTCCATGCATGAGAAGTTTGACACTGTTTTAA

TABLE 1A 527/599

AGGATCCTGTTCCTGCCACTTGTTGTCCCCCAGGGCCAAGTCCTACTGACACCTGTTGGA
ATTTCTTGCACTTAGGAGCGGCTCTCTATGGAGAGGGTCCACATCAAAATTTAGACGTT
GTCACCTTTTTTGAACTAGATAAAACCAGTAAGGATACAGACAATAATAAAAGGCTTTCC
AACTCAGCAGAATTAANAACTAGCTCTTGGAGTATATACATTTGCACTCCAATATCAACA
CTAGCCTATCCACTTTGAGTCAAAATTTGAAAGGTAAGAATGTAATTATGAAAATGTGCA
CAAAATGTTAAATACTAATGGCAAATAAATATATCTTAATATGTTCTAACAAGCAAACAT
ATATTCAAGATAATCAGCCCTGCTTTATTAAAGAANGAAAAGATCCAAATTGTNTTTGTG
GGGTGGGGCN

Sequence 5953

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCATAGTTAAGATCTGTGATACGAAC CATAGATATTGTCTGACAAAGCAGAAATCACCAAGTTTCCCCCTTTTGAATTACCACCAA GAAGTGTTGAAACACCAAATAGATATCATGTTATTTTGGGCATTTGCAGTTTTCTCCCT GCTGCATGTAATGTCTCAGAATCAACATCTTTTAAAATCTAGACTATATTTTGAGGCAA TGAATTACTTATATTCAACTTAGGCTTGTTTTGACATTCAGTAGAACTTTAAGTTCAATC TAAAGGCTTCA

Sequence 5954

CCCTTACGAGCGGCCGCCGGNCNNGTACCGCANGGGANANATGAAANATTATAACCAAGC ATAATATATCAAGGACTAACCCCTATACCTTCTGCATAATGAATTAACTAGAAATAACTT GTGCAAGGAGAGCCAAAGCTTACACCCCCGAAACCANACGAGCTACCTANGAACAGCTTA AAGAGCACACCCCGTCTATGTAGCAAAATAGTGGGANGATTNATAGGTAGAGGCGACAAA CCTACCGAGCCTGGTGATAGCTGGNTGCCAAAATAGAATCTTANTTCAACTTTAAATTTG CCACAGANCCCTTTAAATCCCTTGGAAATNTNAACTGTTNGTNCCAAAGAGGAAACNGTT TTTTTGGNCACTATGGANAAAAACCTTGNNATANAAGAAGTAATAAATTTACCNCCCATG GTNGGCCTTAANAAGCANGCCACCAATTTTNGAANAGCGNTTAAGGCNNAACACCCACTN CCTTAAAAAAATNCCCANNACTTTTAACTNNAACTCCTCAACACCCNAANTGGAACCATTC TATNACCCTATATGAAGAAACTAATGNTAGTNTTATTTNACATTGAAAAACC Sequence 5955

AAACTTACAGCAA Sequence 5958

TABLE 1A 528/599

Sequence 5959

Sequence 5960

Sequence 5962

CCCTTAGCGTGGTCGCGGCCGAGGTACATACCTGTTGGCAAAGATTGGGCAGCAAGCCTT GTGGACCAAACTGGGGTTACTCCCAGGAAAGAGCAAATTAGTGGTCACAACATTCAGAT CTTAGAGCCAGAAGAACAGGACTACAGCAGAGCCTCACTTCAAGACAACTCGGAGGCGCT GGCTCCTCTGAAACCCAGACGCTGTCAACTCCCTGGGCCCAGGAGTCACAACCGCTTTCG TGCTCTGGGTTCTTCACTTCTTGTGATCAGCTCCACATATTTTTCTGATGATGTCACCCA TTCTGACTTCCTACATTTTGAAAGTTGATCTACAAGTAAAATCTTTCGTGAGGCTTAAAA AAAAGAAGAAAAAGAAATAAAAGGTGTGCTATAGGGAGATGGAGAGAAAGGACCCG

Sequence 5963

TABLE 1A 529/599

TTGGAAGAAATACATTAACTGNACTCAANAATNTAATGTGTCCANCANANNAATTNGTTG AAGCAGAAGANAGGGGCTNTCAAAACTTTGGNGAATAGGCCATTGGGAAATCNTGGTNAT GGGGNGGGGGAAAAANANNAAAANGGATTGGAANATTTTTTAAAGNGGACTTTTGGAGAC CTTCCTCAAAGGAGGGNTAAATTTTTNNNNTTNCCGGAATGGGGAAGATTNGAGGGNAA AAGGGACAGAAAAACTTTTTTNGANGAAATTNTGNTCANNAAAACCTCATTTTTTTTGGC AAGGGGAATAANAAAATTTTGATCTTAGAAAATCCCCCANCATCAGGGGTTNGGANAAAAC CCAGGG

Sequence 5964

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTAGGCAGCTCACAGAGCTGATCTCAACTTTG
AGCACCATGGGAGGTAAAGACCTCAGGGCAGTTGNCTCTNGTGCAGCTAAAGTGTTTAGA
AAGCCAGAACGAAGTGAAAGGAAGACCCTAGAGTGGGTCAGCTTTCTGCCAAAGATAGAG
AATATAGCTATAGAATGCTCCCANCCTACAGTATAGAGCTGTTGTTGGGAAGTGGCTGCT
CAACCAGTGCCTGTATGCCCTANCCTNTCACACAGTTGGACTACATGACTAGTTCTT
Sequence 5965

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAGCACCTTGGCGCGCGGGGGCTGGCA
CCTTGGCGCTGTTGGTGGCGCGGGGGACACGCTGTGAAGTGTAAGTTCTTTGTNTGCTGG
CAGCTANGGGCGACGACGAGGCGGGACGTCATGGAAGTGAAGG

Sequence 5966

Sequence 5967

Sequence 5968

CCCTTCGTGGTCGCGGCCGAGGTACGCGGGTATTGGGAGAATCTGCTGCCAGCTTCAGGC
AGACCTTTCTGTCCTTCGCTGTCAAAGCCAGACTTATAANGAGTANGTGAANGCAAAACC
CTNNAAAATTATTCGAACANNGAAAAAAAAAAAGTTTTGCCTCTTCNAGCCCTGGACCCTTG
NNNAACTCNGTTTCCCTCACCCTTTNCAATTCACTTNNACCCAATNGTCCCNCTTNGCNT
TATTCCTTCCACAAGCCTTGGCNTAGATGACANNTCTTGGNAGNGNTTGNCCTTGGCNAA
NACCTCNCACTATTANNCACTTTTTCCCAANGACCCNCNNANCCAAAATNTTGTTAGGTT
GGNCCAATTAATTTTGGAAGANCCTTCCCCTTGGCNTTAGTAGGGGGGTATTAAAANAC
Sequence 5969

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTAATCATACCAGGCTTCTGATTTTACAATC CGGGTTTAAGCTGTTTACATTTTCCAAAGTAATCACTTTTGCTCTCCTAAATCCCTCGTA ATATTCAAAGTAAAACTGATGGAATTTTTTGATAAGTTACCAAGGTTAGCATCACTGA TTACCTTCAATGCACTTGCAAGTGAACCACAGCTAATCTGTAAATTAAGAATTCATCTAC AAATGGAAGCAAAGAAAAAAAAGTTGTTTTTCTTAAGCAAAGTTGGAAATAAACAGAA AATCTTTTTCTTTAAAGGATGGTGGA

Sequence 5970

CCCTTCTAGCGGCCGCCCGGGCAGGTACTTTTTTCTTATGATGATTGGTGTAGAAATGT GTGATTTGGGTGGGCTTTTACATCTTGCCTACCATTGCATGAAACATTGGGGTTTCTTCA AAATGNGTGTNGTTCATAACTTCTTTTGGGGAGGGGGGGTTGTTTTCATTCTGTNTATTTT CTGAGGACTCCTACAGGAGCCAAATTTGTAATTTAAGAGACACTTAATTTTGTTAATCCT

TABLE 1A 530/599

GTCTGGGACACTTAAGTAACATCTAAAGCATTATTGCTTTAGAATGTTCAAATAAAATTT CCTGACCAAATTGTTTTGTGGAAAATAAGATGTTTTTGCAATTTTGAAGATAATCCTATC CTGTTCCCAGGAAAGGCNCANAAAGGTANGCGGANATGGCCCCATT Sequence 5971

Sequence 5972

Sequence 5973

CTCTAGTATGCATAGCTCGAGCGGCCAGCCAGTGTAGATAGGATATCTTGCANAATTCGC CCTTTCGAGCGGCCGGCCGGGCAGGTACGCGGGGCANGATGATGGAAGAAAAATTACTNC ATGCTGA

Sequence 5974

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATCATTATTGTGAAGATATGCTATAGCTGA TGCGAGACTTTGAATGATCCACCTTGNCTATTNTCTTGAGAAATGCCCTAATNTNTNNAN AATATNTNTGAGTTCTNCANCCTCACAAAGCTNCATCACAAGATACATTTTCTTTG Sequence 5976

TABLE 1A 531/599

Sequence 5977

Sequence 5978

Sequence 5979

Sequence 5980

Sequence 5981

Sequence 5982

TABLE 1A 532/599

Sequence 5985

CCCTTAGCGTGGTCGCGGCCGAGGTACACCCGGCAGCACAACGAGNNCAGNCACAACTTT
GAGAGCATGTCACCTGCCAAGCCAGTCCAGCCTNACAGAGAACGGAAAAGAGCCNNCAAA
TNCAGCNAGCACAGNATGAGTTAGAACTCANACTCCCATNAACTTAGACTTACTAGNACC
ATCCTGCTTTACAGATTTGATTGCTTTTGGAAAGACTTCAAGCCTTGNCACTTGCTGTTTT
TCTCACNNGAAAAGTATATGGCTTTCTGCTTTTGATCCAAACCCCANCAAAGCCTNNCTT
AAGNNTCCNGACCTTNCTTTGGGNAANNAGGTTTTNNCTTTTTCAAGGTTTTTCNAAGAT
GTAAGGNTNTTCNTTGAATGCAATTTTGGCATTTNAAATTCCACGNATTCCNGNAANTTT
AAATNCNTAATTGGTTCCTAAAAAGANTGTTGGTTCTTTTAACCTNCNNNGGANTCCATN
TTTATTTTTAAACCANTAAANGGGCTTTCTTAAAANGGCNCTNCATTTTANCTGGGNCCN
ANNCCCTNTTCNTAAACAAAACTTCCNTNAAAANCCGGTTAAAAAAAAATNTTGTTGGCAT
GAATCTTTANCAGTACNCTTTTAAAAAAGGNGCTTTTTTTTGNNCCCTTNCCCGG
Sequence 5987

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTATGCAGTCATGGCTCACTGGAGCCTTGACCTCCTGGGCTCAGGCAGTCTTCTCACCTTAGCCTTCTCAGTAGCTGGGACTACAGGCATG

TABLE 1A 533/599

Sequence 5988

Sequence 5991

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTACAGTGGCAACAGCCTGCAGGATACCAAG
GCTCCCATGATGCCTCTGAGCTGTTTCCTGGGCAATGTCTATGCTGAGAGTGTAGATGTT
CTTCGAGATGGAACTGGACCTGCAGGTTTACGACTTCGCCTACTTGCTGCAGGTTGTGGA
CCTGGCCTATTAGCAGATGCCAAGATGCGGGTATTTGAACGTTCAGTGTATTTTGGTGAT
TCCTGCCAAGATGTTCTTAGCATGCTTGGCTCTCCACACAAAGTCTTCTATAAATCAGAA
GACAAGATGAAAATTCATTCTCCTTCCCCTCATAAACAAGTTCCATCGAAGTGTAATGAC
TACTTTTTAACTACTTCACTCTTGGAGTGGACATCCTCTTTGATGCGAATACACACAAA
GTGAAGAAGTTTGTTCTACACACCAATTACCCTGGGCATTATAATTTCAA
Sequence 5992

CCCTTGCGTGGTCGCGGCCGAGGTACAGTTACCTCCAGTCTCTTGTGTATCTGGAATGCA

TABLE 1A 534/599

CTTACTTCCTNTTAAGGTTCTTAGAGTGTAAGGAAAACAAAAGCTGTAGAGTTCTGCATC
CATGGGGACTGAGACAGANCAAAGCACTTCCTAGTATGTTCAACTGGAACATGGCCCACA
CTGATCCATGGTCACAGTTTGGAATGTGCTGAGAAGCTTCATCTACAATCAAGTTTCTCA
GTAAGAAGTCCCCGCAGAGGGAGGGAGTCCACTGTGTACCTGCCCGGGCGGNCGCTCGAA
AGGGCGAATT

Sequence 5993

Sequence 5994

CCCTTCGAGCGGCCCCGGGCAGGTACGCGGGATATTTAAAAGAAAATAGTTCCCAAG AAATGAAACTGGCTCCAGAAAGCTGACAGCTCATCCTGTCCATGACACTTACCCACTTCC AGGGTCACCTGCAAACACCAACTTCCTAGCCTTACAGTATGTGATCTTCTTTGCCTGGAA CCCGAGGGCGCATCCAGCTGCTGCTATTTTTGTCCCTGGCTTTGGGCTGAACTAATAATG TTATGAGAAATTTTAAGAATTTGT

Sequence 5995

Sequence 5996

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTAGGAGGAATATTTGCTCTGTGCCATCAGC CGNGTAGAAACTANAATAACCAGCTGCCATATTGTGAGCTGATTATGAAGAGAGACCATGT GGCAAGACACTGAGGGAGATCTCCAGCCAACAACAACTCATAAGCAACTAAATCTTGTGA TGAACCACTGGAGTCATCTGGAAAGAGGATCCTCTCACCTTCAATCTTTGAAATGGCTAG AGCTCTGATGACAGTTGGATTACAGCCTTAGGAGAAACAGAGAGCCGGGGAAATTTGTGC CCAGGTTCCTTTCCCACAGACATTGTCAGATAATAAATATCTNTGCG Sequence 5997

CCCTTTCGAGCGCCCGCCCGGGCAGGTACTGGAAGGTGATATTAAAGGTGAACGTGTAT
TATAATGGGGCTGTGTTGATTTCTATAAGTGGTTCATATTTTTTCCTGCGAATTTCTTAG
GATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAACATCCT
GCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAGAAGCTGGAGATGGAACT
ACTTCAGTGGTAGGTAGACTGGCTAAAGAATGATCATTTTTCTAAAAACGACCCGACTTT
CAGAAAGTTGAAGCCATAAGTGGGTCATTTGTGCTGTGTCAGAAATAAGTTACATATTCT
GAATGC

Sequence 5998

TABLE 1A 535/599

Sequence 5999

CCCTTAGCGTGGTCGCGGCCGAGGTACGCTGATTGTTGCTAACTGTCCTCCGGGGGAACT
TCAATTTAGTGGTCAGCCTCAGGTGTGTGCCATTGTAACAAATAGCAGTTAAGCTTCATA
TTGGGTGGACAAAAGTTTCCACCCACTTTCAGACANGTTACAAAGATATGTAGCTACACT
GAGCATAAAAGGAGGAAAATTGATGAACACTATGGACAGAAAGCAGGTGAATTGCTAGAA
CTTTGGCTGGTTTGCTTGGGTTGGTTAAAGATTAAGGAAGAATGGAAATAGCTGAG
CCATCTTACTACTTAGTCCCTCCTATAGTCTGTCATGCCAACCTTAGATCCCTTTGGAGA
TGACACTAAAAGTAA

Sequence 6000

Sequence 6001

Sequence 6002

TABLE 1A 536/599

Sequence 6003

Sequence 6004

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGAGTGTCTGCAAAGAGTCCTGTGATGTGA TCTGTCTCCAGGTCTCTCAGGCGTGGATACCAGCACTTACTCTGGTGGAGGTAACAGGGG TGTGAAGTAGATTCTGTGAAGGTCCTTGGTTGTATTTTTGTTAAGTGCGCTGGTTTTGTA TTGGCTGGCCTCCAGCCAGGAGTTGGCACTTACAAGAGCACATCAAGCTACAGTTGTATA AAACTGGATTTTTTTTAACTGAAGATCCGTGCATATCATTACATGTTAATTTTATTTCAA TAAAAATAAAAAGCATCTTATTACTCATAGACTGATCTCATCTCATTATTTAAACTATAT CTCATATACACATTATGTTG

Sequence 6005

Sequence 6006

Sequence 6007

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT AGACTCCTGAAAAAGAAACCAGAAAACTTTGTCTGGTTAGTGAAATTACACACATAGGC Sequence 6008

TABLE 1A 537/599

NTNCCCTTNANTTNCACNNGGGGNNNNAAAACTTTTTNNNAATNGGGNCCAAAANNNATT

Sequence 6009

Sequence 6010

Sequence 6011

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCCCGGGCAGGTACAGTTAAAAAGTAAG
CATTGTAGTAAATAGTGGATTCTCTGGTGTGTATTTTTTATCTCAGTGTTGAAAATTGGA
AAAGAATGGACTGAAGTCTAAAAACTGGAATAATGAAGGACACTAAATGCCTTTATTGTA
GATACTATGTTTGTAAGTCTATAGCTAAGCAACTTAAGCCAAAAAAGGTCTTTCAACTGAA
GCTTTAATCAACTTATTTTGGAGATGTTCTCTTCCCTTATCTCATGCGTCATCCCTAAAA
TAATAAGATACATGGGATCAAATAGCCCTTGCCTTTTCAACACAAATCAAGTTGGAAAAT
TATGGTTTGAGTCCTGTTGCTGCCATGGCTTCTTTTTTTGGAACTTTGTACCTCGGCC
GCGACCACGCTAAGGGCGAATTCCAGCACACTGGCG

Sequence 6012

CGCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
CTATGTTGACCAGGCTGGTCTTGAACTCCTGACCTTGTGATCCCCTGCCTCGGCCTCGCA
AAGTGACTGGGATTACAGGCGTGAGCCACTGTGCCAGCCCACTTATATTATTTCAATTGT
ATTAAATTCATTTTTGGCCCAGGATATTGTTTCTATTGGTAAATGTTCTGTGTGCACTTG
AAAAGAATGTGTCTTCTGCTCTTGCAGGGTTGAGTGTTCTATAAGGGTCAATTAGACCAA
GTTGATTGACAGTGTTTTTTCTACTGNATCCTTCCTGATTTTCTGTCTTAATCTACCAAG
TTCTTGAGAGTGGTCTTGAAATCTCTGATTGTCAATTTTGAAGTTTTTCTCCTTGAAAGTT
TTATCAATTTTTGCTTCAT

Sequence 6013

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAAGCCCACCCCACTAGGAACTATGTTAAA AANAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTGACACCAGGAAAACTT AGAACTTTTNNTNGTNAAATNNACTNGGCCAGCATTAGAAGGTGGGGTTTGGCCATCANA AAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATTGACACAANGTAACCCGTAAAGCC AAGGCACCCANACCANTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCCCCTTGGC

TABLE 1A 538/599

CCCGCCCAACCGTATGTTTNANAAGAACAGGCATCAATAANNCCGGGCNTNGGCATNAAG GNCNNNANGGGAAAATGAACCNATGTTTNGAAGGAAAANANAAAANAAGGGCCCCATTTT TTATTACCCCAAATTTCTTTAAAGGTTTAAAAAATTT

Sequence 6014

Sequence 6015

Sequence 6016

Sequence 6018

TABLE 1A 539/599

AAGAGAAAACAATAAAAACAACAACAATAAACCA

Sequence 6020

Sequence 6021

Sequence 6025

TABLE 1A 540/599

Sequence 6026

Sequence 6027

Sequence 6028

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCTGAAGGCTTTCCCACATGCATCACACT TATACGGCTTTTCACCAGTGTGTATTTTTTGATGGTTAATGAGATCAGAACGCCGACTAA AGCTTTTGCCACACTCATCACATGGATTTGGTTTCTTCCCAGTGTGGATTCTCTGGTGTA GGGTAAGAGCCTGACAGACCTGAAAGCCTTCCTGCACCCGCGTACAGGTTCTTGGTCCC CAAAATGAGGCTTCCCATTCACTGCAAAGAGCAAGCCTGGTATATATGAAATTGCAAATA CATTTCTTCCAAATGATGAATGCTTAATCTCTCTCACAAATTCTTTTGGTGTCAAGTTTTA AAACACTGGATCCGACCATTTTCCCGGTCTGCCACACATAATTGGCCCAAAAG Sequence 6030

TABLE 1A 541/599

AATAGTCTCCTTANNNNNANNNNNNNNNNNNNNNNAAAGTNCCCNGGGNAATGATGAGAAGCC CCACCTCCGTGTGTCTNTTTNGTANAATGTCACAGACCCCCCCTGCTAGATGGGCTGGAT CATGGGGAAAGCC

Sequence 6031

Sequence 6032

CCCTTCGAGCGCCCCGGGCAGGTACTTNNTTTTTTTTTNNNNNTNNTTTCTGCT
TCCTACTTTCAGGTTTAAATTTATCTTTTTTCTTCTAAAAGTATGTTTTATCTTCTAA
TTCCCTATCTTCTCTATTCTTCTCGCCTTCCCGTACAACTAACGCAACCAAGTGTGCT
AAAAATGAGCTTGATTAAATCAACCACCTATTTTTGACATGAAAATGAAGCAGGGTTTCT
TTTCTTCACTCAAATTTTGGCGAATCTCAAAATTAGATCCTAAGATGTGTCTTATTTTTA
TAACATCTTTATTGAAATTCTATTTATAATACAAAATCTTGTTTTGAAAATTATAA
AATATTTAAAAAATTCCAAATTCATGGCATGCTTAAATTTTAACTAAATTTTAA
Sequence 6033

Sequence 6034

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGCTACTAGCCCGTCCCCCAGGGTCACCAT CTTTAATTCTTTTCCTTATTTTCTTCTGGAGAGGCACAAGGAAGAATTTAAGGGGGTCN CANGGNATTCAGTCCATTGGCCCCCCTTNGTAAAATNTTAAAAANCNTGNCAAGGAATTC GGGAANGGGAAAACCANGGCNCCTTGNAGGAATTAATTGAAGGCTATTGGAAGGCCTCCN

TABLE 1A 542/599

AATATTATNTGGGGGGNGNTTNATAGGCCCCATTTTTGGTGATNTCAACCCTTTTTNAAA

Sequence 6037

Sequence 6038

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCTACATGAAAAGGGATGGTTTCTTG GAGCTTCCACAAACTTAAAACCATGAAACATCTATTATTGTCTATTGNGTGTTTTTCTAG TTAAGTCCCAAGGTGTCAACCACAAATGAGGAGGGTTTCTTCAGTGNCCGTGGTNATCCG ACCCCTTGACAAAGAAGAGAGAGAGGGCTCCCAGNCTTGAGGCCTGCCCCACCGCCCATA NGTGGAGGGTGGCTATCGGGCTCGNCCAGCCAAAGCAGCTTGCCACTTAAAAGAAAGTNG AAAGAAAAGCC

Sequence 6039

Sequence 6041

Sequence 6043

TABLE 1A 543/599

Sequence 6044

Sequence 6045

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCAGGGAACCGCTCAGATACCCTT CCACACCGTGGAAACTTTGTTCTTACCCTCTTGACGAAAAATCTTGCTGCTGCTCACTCT TTGGGTCCACACCACCACCTTAAGAGCTACAACGATCACCACGACAGTCTGCGGCTTCATTC TTGAAGTCAGCGACACCACCAAACCCACCAGAAGGGAGAAACTCCAGACACATCTGAAGGA ACAAACTCCAGACACATCTTTAACAGCTGCAACACACACTGTGGAAGGTCCACGGCT TCATTCTTGAAGCCAGCGAGGACCACGAACCCTTCTGGA

Sequence 6047

Sequence 6048

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCGGGTAGCTACACTACACCATTCTAGGGT CATTGCTGCCACTACACGTGGCTTCATAGAGCCTGGGATACTGCCAATTTTTATCATCTC AGAGTCCAGAGTCACCACTGCATGGTGCCTTATCCCCCCAGGATCTAAGTTGTCTCTGAG CCCTGTTGGGTCTGGTTCCCAAACTGATGCCTACCCTGCTCCCTAGGTCCAAACTTTCAG AGCATTTCTAGGGCAGAAGTGCTCTGAAGGTTTGCACCTGGGGAGCAGGGTAGACTAGAA CAGAGTCTCAGCAACCAAATTCCCTTGGTCTGAACTGCGAGGGGTGCCTCAAAAGTC ATGGGTGCTGCTTCTGTGGGCAATCTATATCCAACACTGTCACAGAGAGTGGATCTGCAC CTTANGACCCATATGCCACAAGTTCATGAGGACCTGAGCCTANGACCTCACTTTAC AAGCTGCTCTGAATAACTGCACCCTGGAACCCANCACTAAGTGTGGCTACTTGCANGTCA TGTCAGACTGACACAAAAGAAGAAGGATCTNCATGGCTTAANTTTCCCCATTGGTGGGGGAAA ATGA

Sequence 6049

CCCTTAGCGTGGTCGCGGCCGAGGTACNCAATATTTATGCACAATTTGNTAGTTTAGNAG TAGACAGACNGGNAGAGGCTTACTGGGAACATGAAAACGTCGGCTTGGATTAANGCCACA NCTATTTNTANGATNNTCAATGAANATNCNATTGATAAAATNNTNNAATTNTAGNGNAGG GTAATGGTGGANTTNNTAGGNNNGNCTNTCNATTNGNANCNNNAANCTGTGGCNGCTTNA TGNAACCATGANTGTAANNTTGNANTTCNGTCTGAAAANCATAACGAGACCTNTTTTTTG ACACATATGTGAAAAGTTTTT

TABLE 1A 544/599

Sequence 6050

Sequence 6051

Sequence 6053

Sequence 6054

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACATGAAGAGTGTGAAGCATAGATCC
AACAAAGACAATCTGAGAAGAGGCCTTCAGAATTGCAGAACAAGAATTAAAAATCCCCAGA
TTGCTGGAACCAGAAGATGTGGATGTTGTTGATCCTGATGAAAAGTCCATCATGACCTAT
GTGGCACAGTTTCTGCAGTATTCCAAAGATGCCCCTGGGACTGGAGAGGAGGCTCAGGGA
AAGGTGAAAGATGCTATGGGCTGGTTAACTCTGCAAAAGGAAAAACTACAGAAGTTGCTA
AAGGATTCAGAGAATGATACCTACTTTAAAAAGTATAATAGCCTGCTGTCCTTTATGGAG
TCATTCAATGAAGAAAAAAAAGTCCTTTTTTGGATGTCCTGTCAATAAAACGGGATCTGGAT
GAGCTGGACAAGGATCATTTACAGTTGAAAAGAAGCCTGGGATGGCCTCGATCACCAGAT
TAATGCATGGA

Sequence 6055

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGCGTGCTCCCAACGTCGCCCCGGTT TGACGCACACGCCACAACTGTTTGATTTAATTTTGGATGAGATCGTTCTTGCAGCAAG ATGTTAATAAAGACAAAATNTTNNACTAAAATGGTGTTAAAATGGGGCTTGCCAACAATA TGGATGATTTGAAGATAAACACCCGATATTACTGGTGCTAAAGAAGAACTCCTAGATGAC AACAATTTTATCTCAGACAAAGAGGGCCGGAGTTCATAAGCCAAAAGATTGTCAAACATC

TABLE 1A 545/599

Sequence 6056

Sequence 6058

CCCTTCGAGCGGCCGCCCGGGCAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCT GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTT GTAATTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGAACTCCTGACC TCAGGTGATCCACCCGCCTCGGCCTCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG CCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATCTTTTTACAATTTAAAAAA ATGATCTGTTTTGAAGGCAAAAATTGCAAATCTTGAAGTTAAGAAGGCAAAAAATG Sequence 6059

CCCTTTCGAGCGCCCCCGCNGGCNNGNACNNCGCCGCAAAAGCTAAGATGTTGAGGAAGAGGANCAGACACCCCGACATGCAATGGTGACACTTAATTNGGTGGAATAATCTCCGTTTGGTTTCAATTG

Sequence 6061

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTAATTTTGCAAATTTTCTGTTTGAAGTTATTTCAAGTAAAATGTTATTCAAAGTGA

TABLE 1A 546/599

Sequence 6062

CCCTTCGAGCGGCCGCCCGGGCAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCT GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCGGCTAATTTTT GTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGAACTCCTGACC TCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGC GCCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAAATTAACAATTTAAAA AAATGATCTGTTTTGAAGGCAAAATTGCAAATCTTTGAAATTAAGAAGGCAAAAATGTAA AGGAGTCAAAACTATAAATCAAGTATTTGGGAAAGTGAAGACTGGAAGCTAATTTGCATT AAATTCACAAACTTTTATCTCTTTCTGGATATACATTNTTTTTCTTTA

Sequence 6063

Sequence 6064

Sequence 6065

Sequence 6066

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGACGAGTCCTGACAGGCCTGGACCTCCTACC
AGANCGCTTGTCAAAGGCCCAGTTACATCTCATGGCTTTAGTGTCAAATGGGGTATGTTT
TGCTGCTNCTTGCTTACTGGTTTTTTTTTTTTTTTTTTTCCTTTGAGATAGAATTTTTAAA
AAATGATTCATTTTAGTAGTGACAAGCCAAAAAAATTGTGGATGGTATTTGCNGAAGTTT
TCTGCATTCGGAATATATGTGTGAGAAACATCCTGAGAATTCTACAAATTGGAATGGACA
ATTTCATTAAAATGTAATCGTAATGGACAATTAAATTTTTAGNGGAAATT
Sequence 6068

Sequence 6069

TABLE 1A 547/599

CCCTTGAGCGCCCCGGGCAGGTACATACAAACAATGAAAACAATCACATCCTTAGG
TTCCATGATTACCGAGATGATTTCCCCTGCCCTAAGTGCTTTATTATTATTTTCTTAAAAAA
TATAGGAGCAGCAGCTTATCACAAGTCTCCACAAGTGCATTAATGATGGAATCAAAACAA
CACAACAGATTCATAAGGATGAGAGAACATGCAGAACAACCAGAAGTCAGTTTTATGCTTC
TTCTTGTTCTGGATAATTCAGAATTTTGCGGTGTGCCTGTCGTAAATATTGCTGCTGTTT
GAAGTAAACTTTAAATGCTCCTTTTATGGCAACAAACGCAATTCCACCCAAGATTGTCCT
TTGTAAATTAGAAGTTAACACTACTGAACATCAATTTACCAACTATTGTAGCAATAGTAG
GAAAGACAAGGGCTCCACCACAAGATTCGAGTAGCGGAGACATGATCTGCTAAAGGATTGG
CCTCAGCTGGAATTCGAGGAACACCTATCCCTGGAAATATACTATTTAAAATTT
GGTAGTTTAT

Sequence 6070

Sequence 6071

Sequence 6072

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGGGGGATGCACTTGAGTGCCATTTCTGATAC
TGTCATTGTATGACTACTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCTG
ATGTTTCACATTTTAAAAAAATGCTTCCTGAGACTTCTTTAAGCTCCTCTAACTTCTTCA
GTGCATTTGGGATCAAACTTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTGC
AATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTTG
CAGATTTGA

Sequence 6073

Sequence 6074

TABLE 1A 548/599

Sequence 6075

Sequence 6076

Sequence 6078

Sequence 6079

Sequence 6080

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGTCCCTCTGAAAATTGTCAGTGTTCCTTCAG

TABLE 1A 549/599

Sequence 6083

Sequence 6081

Sequence 6085

Sequence 6086

TABLE 1A 550/599

TTTTAAAACTTTTAAACATTTTTTA

Sequence 6087

GAATCTNACTTCTTNCCACCACCCNCACTGNTACCACTCTAGNCNAACNAGTAACATCTA
TCCATGAACTATTCTAATNGNCTTGGGAATTACTCATCTTACCTCAGCTNTTGCCCNTCT
ACACAGGAGCTAGTGATTATTCTAAAATATAAGTACTCATTATGTTATTCTCTACTCAAA
ACAATCTTACTTCCTATCTCTGACAGAATGAAATTCACTCTTTAACATAACTTACAACAC
CCTATT

Sequence 6088

Sequence 6089

Sequence 6092

TABLE 1A 551/599

Sequence 6093

Sequence 6094

Sequence 6095

Sequence 6097

TABLE 1A 552/599

ANTITAAGGGGACCCTGCCCG

Sequence 6098

CCCTTCGAGCGGCCGCCCGGGCAGGTACCGTATTACTTTTCTATTGCTTCTTTACCAAA
TAAATACAAGCTTTGCAGTTTAAAACAACAGAAATTTAATTTTTTATAGTTCTGAGGGTC
AGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAG
GGCTGGTTTNTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCCTTCTAG
GGAGCCTGCATTCCCTGCCTCCTAGTGGGCTTNCTCCCATCACTCGAACCTNTGTTTCCA
GCCTCAGGATTCCTAATGTGACTCTGATGTTTCATCTCCCGTTTATGAGGACGCTTCTGA
TTGCTAAGATACATACGGNGACACTATGGAAGTTAACTTGAANATTAAAACCCTGAAAAA
TAGAAAGAATCTTCTATGGNATATCACAAGAGATTACAAGGGCCTGAATTAGAGTGGTGA
CATTTT

Sequence 6099

CCCTTTCNAGCGGCCGCCCGGGCAGGNACTTGCTNCTTTTTTAATGNTTTTTNTATGGTA GAAATATCCCAGAAATTTATTTGATGTTNGCTTGAATACATTTTATNTAAAAAGATTGGG ATTGTTTGCCTTGGATGCC

Sequence 6100

Sequence 6101

CCCTTTCGAGCGGCCGGCCGGGCAGGTACGGCAACATCAACCAAGATTTTTCCACTAACT CAGAAGGAAAGCAGAATGAGTCAACTAATGGTAATTCAGAAGTCACACCTAATGTCAAT CAAGGAAGGCATAACAAATTAGAGTCAGCTATCCATTCTCCTATGAACGATCAGCAAATC TCACAGGAGTCAAGGAATAGTACCTCGGCCGCGACCACGCTAAGGG Sequence 6102

Sequence 6103

Sequence 6104

TABLE 1A 553/599

Sequence 6105

CATGCTCGAGCGGCNNNANNGNGANGGATATCTGCACGAAGCGGCCCNTNCGNGCNGGN ACGCGGGGCTTGGCCTGCTTCAGCCTGAGCTCGGTTAGGGCCTCACTTCCCTGCTTC CACACCTCAGGGAGGCCTCGGTGATTTTGCCAGAGCCTCAGCCTCCATCGCTCTGTAACC TGCGGGTATTGGATGATTCNTANCTAANACTTCNCGACACCCTNGAAGNTNANAAATGNA ACCCTTAACATTCATGGATNTGGCCATAGAATTCTCTCCAGAAGAGTGGAAATGCCTGGA CC.

Sequence 6108

Sequence 6109

GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAGATCTCATAT

TABLE 1A 554/599

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCCACTCAATACTTGTGTNTCACT TGGCAATTGGCATACGTGACTGTCCTCTATTTTTCCATCTACCTAATTTCAAAGGATTT NCAGAAGGAAAAGAAGATTTANATGCTTCATTTCAAATATTTNTGAGTTTTGACAAAGGT GCCAAGACCACACATTGGAGAAAATACAGTCTTTTCAATAAATGGTTCTGGGAAAATAAA ATATCCACATGTAGAAGAATGAGATTACACCCCTCCNTCTTGCNNTATACAAAAAACCAAC TCAAAATGAATTCAAGAACTTAAATGTAAGATGCAAAACTATGAAACTACTATGAAGAAAA CATAAGGGGAATACTTNACCACATTGGGCTTGGCAAAGATTTTTTAAATAACACCTNTTA ANATACAGGCAACCAAAAG

Sequence 6112

TABLE 1A 555/599

Sequence 6115

Sequence 6116

Sequence 6117

Sequence 6119

Sequence 6120

TABLE 1A 556/599

ATTTAGTGTATCTGGTGGAAGAAATTTCTAAGCAGTAAAACATTCAAGATGTGGCATGGC TGCTTGTAACACCCTAGCTCANATGTGTGAGGAAAGAAATAACCTCAGGTTNGAACTTAT ATTTAAAGGGGNAGCAGAAATTAGGAAAT

Sequence 6121

Sequence 6124

TABLE 1A 557/599

AAAAAAANANATANNNNNNNNNNNGGTCCAGTCCAAATTTTAAGGAA

Sequence 6126

Sequence 6127

Sequence 6128

Sequence 6129

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATCATCACTAATGAGACAGCAAATATGT TAGACTTGCTGGCCCAGCAAGCCACAGAAATAAGGATCACCTCTATTAGAATAGACTGGC TTCAGACTGCCCCAGCCAAAAAGAAGAGGATTATGTGGAAAGTTGAGCCTGATGAATTG CTGCCTAGAAATTAATGATAACAGGAAAGCCATCATAGAAATAGCTGCCAGGATGTGGAA GATAGCTCATGTCCCAGTTCAGACCTGGAACCCAGATGGTCTCCAGATTCCCTCTTAGGA GGTTGGTTTTCATCCTTTTGGTGGTTTTTAAAACATTAGGGGTAGTGTTGGCTATATTAAAA GGTTGCTTAATGTTCCCTTTGCCTCTTAGGCCTCCTCATCAGAAACATCC

Sequence 6130

Sequence 6131

TABLE 1A 558/599

Sequence 6132

Sequence 6133

Sequence 6134

Sequence 6135

Sequence 6136

TABLE 1A 559/599

AAGGG

`,

Sequence 6138

Sequence 6139

Sequence 6140

Sequence 6141

Sequence 6142

Sequence 6143

TABLE 1A 560/599

ATGTTTCATTCTATAGAAAGGAAATNGCCNAACTATCACTGGGATTTTAATATTTGNTAT NCTCTCATGAATAGAAATTTATGTAGNCGCAAACAAAATACTTTNACCCACTTAAAAAGA GAATATAACANTTTATGTCACTATAAT

Sequence 6144

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATCTTGCTTAACAGAGAAAGGATGTCT GAGAGCTCCCGAATGAAACAATTTTTNTGAAATANAGGGCCCANAATTGGTCTNTGACAA TTTAAATANAGCCATTCAATANTTGGCAAAAANTGATTNTTTTATATCTTTAGGNGCTCA ATTATCTACCCAGTTTTTAATAATNNTNAANCAAGGTTCTTGGTGAGCNTCTGAACTNTG GCAGAATTTGGTGGGCAACATAAGACTTTTTGGATTTTTCCAAA Sequence 6145

CCCTTTCTAGCGGCCGCCCGGGCAGGNACNGAAAATAAACTTTGCTATTTCNTTTGGNNA ATCATCCAGGATACCNTGTGGACATAAAGNAATTCACTCNCTCNNCTGGGNTNNNANTAA CAGGTNAGGCTGCCTTTTCCACCTGCANATACAATTNTNTAAAACNAAAATNCTNNAGGN GGGTTNTTATTGCATATGGANCACNTGACCCCAAGNAGGATTTNCACAAACCTTNCCAGA GAANTTNATCATTNNCAAGGNCCTGCCANACACATCNANGCCAANCAAAGGTCGCCTTGC ATTTCANGNAGGACAAGTATGGTAAAACT

Sequence 6146

Sequence 6148

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGGTTATCCCCAATGTCTTCCACCCAGGAAG GCCTACTGGCTATGCAGCTACTTGGACTCCCGTTCAGGTGCAGAAACCGCACAACTCAG GGTTAGCTCTCAGGGTCTTCTCTGGCTCCTCAGTCCCACTAATGCAGAGAGAACCCTGGC TACTCGGAAACGGCTGTCCTGGGGCTAATCCACTGCTAATTCCGTTAGTTCCTGTCAAGC ACTGGCCATTCCTGCTTTCCATCCCACTGAGCGGGGTCGTGGAGGGGAAGTCCAAATGTC CATTGATGACACATCCATTTGTCAATGTAT

Sequence 6149

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTAGTCCAGCCTTCCAGGTGGCGTGAGA GGCAATGACTCGTTACCTGCCGCCCATCACCTTGGAGGCCTTCCTGGCCTTGAGTAGAAA AGTCGGGGATCGGGGCAAGAGAGGCTGAGTACAGAGACCTTCCATAGAGTCTCTTGAAGT GTGCCCGGATATCCAACATGTCAATTTCTGCTCGAGAAACCATCACTCTGATGAGGGTGT TATCATCGGTGCCCAAGCCCTTCATCGATTTATAGAGCTTTTCAAGCAAAATATGCAGAT TTGTTCCTCATGCACTTTACTATAGCCAGCAGAGCATCTTCAAAGCTACCAGATGTTTCA GATTTAATACTCTGTTCAATATCCTTCTGTGATATCCTTTTGGTATTCATCAAACACATG CAACAGGGTGATTTCGGTTCCNGGAACAGAGAACAGTTAAGAAATTTCACCCTCATCTGT

TABLE 1A 561/599

CCCCCATTTTCTTCTTTTCCACCCTNATACAGGGTCCT

Sequence 6150

Sequence 6151

Sequence 6152

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAAGAAATAGGAATAAGTTTCATATACTAAT
TATGCTGAGTTTTAAGCCTACATATCACAAAATATTTAGAATTGTATAACCTTTTCATAT
ATTTATAACTTTTAATGTCTTTTTAAAAGATGTGGGACCAAAAATATATTTATAATTTGG
AAATGTGACTGCATACCAATAAGAAAACTTACCTTATTTTGAAATTTATCTGGGATATTA
AAGAATCTACCAATTCTTAAAAACACAGATTTATACTTTAAGCTTATTTTAAAATTAAAG
AATATATACCAATTCTTAAGAAACACTTTAAGGACTACTCTTAAATAACTTAAATATCAG
AGTTTTGTTTGTAATATTAAAATTTACCATGGGAAATCACTGTTGGTCAGCTATCACCTT
AATTGNGTATGAATATGGATAAATGGTTTAANCAGTAAAAGCTATCTTAAAGAATTTAAT
GGGAAAAGTTTAAATTTGAAAGATGTAACCAAAAAATTCTGGCCCACAGGTTGGATTCTG
GAATTTTAAA

Sequence 6153

CCCTTAGCGTGGTCGCGGCCGAGGTACAATATTTATGCAGGGGATACACAAATACATCAGT GCTACAAACCATAGAACCAGAAAGACTCACGTGTATTAGAAAACTTGATATATGCTGGAG GAGGCATTGCAAGTCAGTGTACGCNGGGGTGGTAGGTAGAAATATAAGATGACTCCCAAG ATTTTTGCACCCTGGCATACACATATGCTTTTCCAGTTGTTGAAACACTAATTTAGGTGC TGCTGTGAAGGGGATTTTGTAGATGTGAATAATGTTCCAAATCAGTTGGCCTTAAGATAGA AAGATGATCCTGGATGGGCCAGATCTTA

Sequence 6154

CCCTTCGAGCGCCGCCCGGGCAGGTACTGAAGAGTAGGGGTCAGAAAGAGGACTGGGGGATTTCCCCTAATTNTTCTCACTAATCCTTATTGCTTTTTTATTGCAAAAAGGAAAGAAT ATTGTTATGCATACTCAAATTGTTTTTTTTCCCCTGTTAAACCATGATTATACATAGATT TTGTCTCCCTCTCGTGGGTATTAGAACCCTGCATGGTTTTCTCTGTGTGGGGGCCA TAGCTTTCTAGGATAGTTATTAAAATGCATACCACTTTCAATTGTGTATCCGGCATT CTTTCCGTGATGTTCAAGTGCCTCGCTAGTCATTTTCATTTAAAGAGGCCCAAATACTTC CATAGAACAAGTACCTCGGCCGCGACCACGCTAAGGGCCGAAT

Sequence 6155

TABLE 1A 562/599

Sequence 6157

Sequence 6158

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGGCACATGCAGCGCAAGTAGGTCT
ACAAGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCGTGATCACGCCCTCAT
AATCATTTTCCTTAACTTGCTATCCCTAAGTCCTGTATGGCCCTTTTCCTAAACACTTC
ACAAACANAAACTAAACCTAATACTAACATACTTANGACNCTTNAGGGAAATATGAAACC
GTCTTGAAACTATCCTGCCCGCCATCATCCTAAGGTCCTCATCGCCCTNCCATCCCTACG
CATCCTTTACATAAACAGACNAGGTCAACGATCCCTCCCTTTACCATCA
Sequence 6159

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGTGATATCACTTAGGTAGAATCAGAC TACTACCATATCTTCATTCCAGTAAGGAACGACAAAAATTCCGCTCAGGGTGTTAGGAAA GACTGGAAGACTGGCAGGTCAGCAGCGCTGTTGAGGGCTGACTTTATTTGGAACAGAGAA TGGAAAAACTCACTCCTAAAAGGTGTTTTCAAAAACGGTAGAGATCTTTATGTTGAACAA CTAGTGGGAAGCTAATAGTTCATGTAACTAGAAGCAACGAATTAAATGGCAGACCAGCCA GAAGTTTAACAGACAGAATCAAGGGGAGAGACAACGAATCATTAAGATCACT

TABLE 1A 563/599

GGGGGTCAGGATGCACATGTGCTACACTGCATTGACTCAAAAGCAACCAGAAAGTGTACCTGCCCGGGCGGCCC

Sequence 6161

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACCTCTGGAACTTTTATTGTTTTTTATTCCT TTGCTGTATTTCAGGGGTCATCGAATATCTTCACTGTCTCTGTAACATATACATTTTCAA GCCAGAAAACTGACTCCATTAGCTAAATTAAACTGTTTGCGAAAGCCTTTTTCCACTGCC ATGTCTTATTTCTATTTCAGTTTCTCTGGTGGGATA

Sequence 6162

Sequence 6163

Sequence 6164

Sequence 6165

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTAAGCTCAGTATGCAAAAGCCCAAACTAGT GCAGAAACTGTAAACTGTGCCTTTCAAAGAACTGGCCCTAGGTGAACAGGAAAACAATTG AAGGTTTTGNNATGNNTAAAATTTGGCAANAANNCCATAAAATTTTTAAATTTTTTTTN GGGAAAGCCCCNTTTTTTTCNAGNNCANTTNATTTAAAACCCGGGCCATGGAANTGGGGG GGCCNTTCAANGGGGAATTCCTTAATTTTTTTTAAAATTTATTTTTCAAAAATTTAAA NTTTTCCTTTNTCCCCATTTTTTTTCAATTANATTAATATTTGGAANTTCCAANNAAAAGG GCCANTGGGGGGGGGGGGTTATTNTNNNGCCAAAATTTTTACCCCNGGTTTTNNAAAAAA ANTTTTTT

Sequence 6166

CCCTTAGCGTGGTCGCGGCCGAGGTACGGGGTCACAATCCTAAACATATATGCACCTAAC

TABLE 1A 564/599

ACTGGAGCTCCCAAATTTATAAAACCATCACTAATAGACCTAAGAAATGAGATAGACAGT
AACACAATAATAGTGGGGGACTTCAATATGTCACTGACAGCACTAGACAGGCCAATGAGA
CAGAAAGTCAACAAAGAAACAATGGATTTAAACTATACCCTGGAACACCATGGACTTAACA
CATATATACAGAACATTCCATCCAACAACTGCAGAATATACATTCTATTCAACAGTGCAT
GGAACTTTCTCCAAGATAGACCACGTGGTAGGCCACAAAACAAGCCGCAATAAATTTAAG
AAAATTGAAATTTATCAAGCACTCTCTCAGACCACAGTGGAATAAAACTGGAAATCAAC
TCCAAAAGGAGCTTTCAAAACCATGCAAATACATGGAAATTAACCTGCTCCTGAATGATC
ATGAAAATCGAGATGGGAAATTAAAAGAAATNATTAAATTGAACAAAAAATAGTGATACC
ANCCTATCAAAAAAGAAGTGGAATCAGCAAAAGTCAGTNGCTAAAAAGGAAGGTTCATATTC
CTAAACACCTCCTTCAAAAAAAGTCTTAAAAGAGCCCAAACNGGCCATTCAAANGGTCCC
ACTTNCAGGGGACCTGGGGAAACCAGGACCAACC

Sequence 6167

Sequence 6168

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCT
TTACCTTGTTATCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG
AGGACTCTTCATTTTATCCCTGGTTTTCTGAGGGCTTTTAATCATGACTCAATGTTGGGT
TTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAAT
ATGGTAAAGTTCATTTATTGATTTTTGAACCCGCGTACCTGCCCGGGCGGCCGCTCGAAA
GGG

Sequence 6169

Sequence 6170

CCCTTCGAGCGGCCGCCCGGGCAGGTACTAACTTTCACTCCCCCTCTCTGTAATAAATG CCTTAAGCAATTTAAATAAGCAGAATGTTTAATTTCATTCTGTCCCATTGTTACCCTGGT TCTTCTGAGTGCCCAGCTTACCCGCCGAGCTTCTTTCAGTCATCCTCGGTGTCCTCTGAC AATGCATCTTCTGCTTCCACATGCTCTAGCATTCCTTCACCGGGGTCTTCATAGCCCCAT GTTGGGCGCCAGAAATGTTGGGGTGATCAGACCCAACACCAGGCCGTGGGGGCTACGAAG TCCGGAGGAGTCAAAGGAATGAGAAAAGAC

Sequence 6171

TABLE 1A 565/599

Sequence 6172

CCCTTAGCGTGGACGCGGCCGACGTACCACAACTCCCAGGATTGGTGCNGGNGGNAANCT TGTATCTGNTNTGCAAATATTGTTTNTATTGTTTTGAGCGACGTGGGCCCTCCTGAACAT NTTATTTTAA

Sequence 6173

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTGTCATTTGGATTTGCATTTCTCTGAT
GAGTGATGCTATCAAGCACCTTTGCTGGTGCTGTTGGCCATATGTGTATGTTCCCTGGAG
AAGTGTCTGTGCTGAGCCTTGGCCCACTTTTTAATTAGGCGTTTGTCTTTTTATTACTGA
GTTGTAAGAGTTCTTTATATATTCTGGATTCTAGACCCTTATCAGATACATGGTTTGCAA
ATATTTTCTCCCATTCTGTGGGTTGTTTTTCACTTTATCGATAATGTCCTTAGACATAT
AATAAATTTGTATTTTAAAAGTGACTTGATTTGGCTGTGCAAGGTGGCTCACGCTTGTAA
TCCCAGCACTTTGGGAGACTGAGGTGGGTGGATCATATGAGGAGGCTAGGANTTCGAGGT
CANCCTGCCAGCATANCGAAAACTGTCTCTACTAAAAAAATCAAAAATTAGTCANGCATGG
TGGTGCACGTTTGTAATANCCACTTTNAAGAAGCTNANGCNCNANGATCANTTNAACCCA
ANANGAGGAGGTGNNANGANCTNANATCATNCCNGNAACANAANNNAACTTTNTTTAAAA
AAA

Sequence 6174

Sequence 6175

CCCTTTCGAGCGGCCCGGGCAGGTACGGGGTAAATGGATTTTGCACAAAACCACAG GAAAGTCCCGGAGCTNCATCCCGCACTTACAACAGAGTGCCTTTCACAAACCTACGGATT GGCAGAAAAAGATCCTCATATGGTCAGGTCGCTTCAAAAAGGAAGATGAAATCCCAGAGA CTGTTTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAAGATCAGCTATC TAATGATTGCCCTGACGGTGGTAGGATGCATCTTCATGGTTATTGAGGGCAAGAAGGCTG CCCAAAGACACGAGACTTTAACAAGCTTGAACTTAGAAAAGAAGCTCGTCTGAAAGAGG AAGCAGCTATGAAGGCCAAAACAGAGTAGCAGAGGTATTCCCGTGTTGGCTGGATTTTTG AAAATCCCNGGAATTATGTTTAACGTGCCTGTTTAAAAAAAGGATGTGGTATTGAAGGATC CCATTTCATAAAAGTATGGATTTGCCC

Sequence 6176

TABLE 1A 566/599

TTATATATCTGGGGGCCTCAGGGGTGGGGTGCCTATATATTTAAAATTGGTNATATTCCTCTTGGATAAATNGACCC

Sequence 6177

Sequence 6178

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGAATTATAACTAAACAACTACATGTTAC TGACAAATTTGTGATTCTTTGAGTCTAAACAACACAGAAACTAGAAGATCCCTTTCCTAG ATTTATATACTTGATTTTCTTATAAAAATAACTTCAGTTATTATGTCAATATTTACCCGC GTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 6179

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTNGTCNCGGCCGACGTACNC NGGTGTCATTGTTTACTTGTCCTGTCACTGGATCTGGGCTAAAGTCCTCCACCACCACTC TGGACCTAAGACCTGGGGTTAAGTGTGGGTTGTGCATCCCCAATCCAGATAATAAAGACT TTGTAAAACATGAATAAAACACATTTTAT

Sequence 6180

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGCTCTTTTAGCTAGAGTGTATGTGAAAAT AAAGAAATACATCATTGTATTCACAACCATGTGTCTTCATTNATAACTTTATGCTTAAAA AATTTTTAANTTCNAANGGTNTAAAGTTTCATTTGGATATTNNATCNCTCTNNAATGCCA NTANAAAGGGNTTGNGGCCANGAAAAATTCTTACTTCCATNGTGNACAATTCTTGCCCAC CAAGTGTNCTTATTTTTTGAAAGACCTTTTCTCCTTTCCTAAAATTGGGNCCAAATTGAT NTTTGNTCTCTTTAACCCCAAGGGNATTTNTAAATTTCTTATTAGGNAAATTTTGGGTTC TCCNTCCAAAACTTCTTGNCNTTATTTTTCCTTNCCCAGATNTTTCCCAGNCAATTAAAA ACNGGTTCNCCTTTTAAAGGAACNCNANTTCNTTGGNTGTTCAAAGGGGGNGGTTTTCCA ACAAAAAAAAA

Sequence 6182

TABLE 1A 567/599

CTTGGGGGNAANCAAGGGGCANTATTTGCCNCCCTGGNGTGAAAANGGGNANCCCCNNAN AANTTCCCCCCCCCCCCCCC

Sequence 6183

Sequence 6184

Sequence 6185

Sequence 6186

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTGGTTTTTGTTTAATAGAACAAATAATCAG
TGTTCACTTATATTACTAAATGTGAAAAACATAATGTGAAAAAGTTACATAACTT
GGTTGTAAAACCCATTTTAAGTGTTCATGTAATGTGGTAAGTTTAAAAAGTGAAGTGAGC
TGTTTTACTACAATGAATTCGTTTGACTCAAAGATTAAAATGCCCCTCCCCCTATGTGTA
TCTCTTATGGCCTGTAATAATTGAAAGCAATGTTTTTGCAGTTTATATAATGCAATTTTT
AATCTGTGTTCAAAAATGGAGTTCATATGGGCTTAACACATGAAATGGGTGGCACAGATC
CACTTGCAGAACCCAAAGATACACAATCAGTTTTGAAATGCAACTTAAGCCATTAATTGT
TGGTGTGAATTTAAAATTTTCTAGTGTTTGTATGGTGGGTATGCTGCCTAAANAGCAAAG
CATCCTCTGCACAAAANGAAAATTACTGTAGTGGCTTTCGATTTTAATTAGAATTTTCTC
CCTGGGNGTTTCTTTATAGACCTAAAGCAAAANTC

Sequence 6187

TABLE 1A 568/599

Sequence 6188

Sequence 6189

Sequence 6190

Sequence 6191

CCCTTAGCGTGGTCGCGGCCCGAGGTNCAACTTAATTTGGTTAAATCAGGCTAAAGCGAA GGACTTACACTCCTTGATCAAGGGAAGAGTTTTCTTGTTTTCTCTTTCTCCTGCTAGATA TGACCAGGTNTGCACATGTTTACTTGACACTTGAAGGGAACTGNCCTTAAGGTGAAACCT TTGACANGAAGAGCANAAGAGGGAAGGAAAGACATG

Sequence 6192

CCCTTAGCGTGGTCGCGGCGAGGTACNCCGGGGGGAGAACTGCAGGAGACTATCTTTCTA AACAAGGCAGTTGATGAGGAGGGGGGCGCTTGAGGGGGACTGG Sequence 6193

TABLE 1A 569/599

Sequence 6194

Sequence 6195

Sequence 6196

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTAAATACTAAGTTTTCCCCCAGGTTCTAA
GTTTTCTGTAATGCATCATTTTACTTTTACCATTAAAAAAATGTTTTATTGTTAAGCTGCT
CTATTTCTGAAAAACCCTCTTACGATCATACACATAGAAAATATAAAAGAATTGACAAAA
TAACTCCTGGAACCAATAAGCAATTATAGCAAAGTTGTAGCATACAAGGTTAATATACAA
AGGTCCAGTGGCTTTCCTATATATCAGTAATGAACAAGAGACATTTGAAATTAAAAACAT
ATTGCTGTTTACATTAGCATCAAAATAAATGAAATATTTAGCTATAAATCTATCAAAATA
TGTATAAGGTCTATATGAAGAGCAAAAACTCTGATGAAAGGTATCAAAGAAGAACTAAAT
AAATGAAGAGATAATCCATGTTCATGAAGAGGAGAACTCAATATTGTCAAGATGTCAGTG
CGTCCCAGCTTGTTCTAATGCAATTCCAATCAAAATCCCAGGAAGTTATTTTTGTGGATAT
CAACAAAAGTAATTTGAAACTTCCTATGAAAAAACAAACGACTCAGAATAGCAAACCCAA
TATCGAAGGGAAAGAATAGAGCCAGGAGGACTGAAATCACTTGAGTTCAAGACTTACTAT
GAAGCCNCAGTGATCAAGACAATGTGGTTTTGGNCCAAAAAAAA

Sequence 6199

NCCCTTAGCGTGGTCGCGGCCGAGGNACCAGGGTNANNAAGCATGTGGTTCATCCTTTGG AAATGGTAGTAGGAAACCATACAGTCTTTTGGCATTTNGAGCTACATAAAGGAACTTGNA GTTTGTTTTNCCAGAAAGACNGTGGCAAGCAAGCNTGANATGGAAAGGTGAGTCTTTTAN TATCCGNGGGAGAGGGCATTGCTTTGGCTTTTTCC

Sequence 6200

CGGCCGAGGTACGCGGGGACTGGAGACACTGANTAAGCAGGGGCCCTTAAGAGTCTTGTT TGCCAAACAGATTTGCAGATCAAGGAGACCCANNAATTTCAAAGAAGCGCTATTANAGGT NTCTTGAGATCCTTTCACTANCTACATTCCTCANGGTAAGAAGGAAAGANTGGCTTTCC Sequence 6201

TABLE 1A 570/599

Sequence 6202

CCCTTTCGAGCGGCCCCGGGCAGGTACACCTGACTCGACCTTNACCAGATAGAGAGCT GGTCATTAAGTGTGAACAAGCTGACTTGAATGTTTCANGACAGCTCCCTCCTCTGTAAAA TGGGAATNATAACACTATTCTTAGGGAGA

Sequence 6203

CCCTTCGAGCGGCCGCCGGGCAGGTACAGTGGGTCCTTTCAAAAGTGGACTTCTAGA
CTCACCTGTTCTCACTCCTGTTTAATTCAACCCCACCCTGCCAATGCCAAATAATAGAAT
TGGCTCCCTACCAACTTGAACAAGGGAGGAGTCTGTGCAGTTTCTGACACTTGTTGTTGA
ACATGGCTAAATACAATGGGGTATCGCTGAGACTAAGTTGTAGAAAATTAACAAATGTGCT
GCTTGGTTAAAANTGGCTACACTCATCTGACTCATTCTTAATTCTATTTAAGTTGGGTTG
GAATCTTGCCTAAGGTGCGTANTCCAACTCTTGGGAATTCCCCTCCTAATAAGTCATACC
TAGTAGTCATACCTCCCTGGGGGTAGTGGTANTCTCTTAAANCCTTTAAAGGTTTGCATT
NNANCNAGCCNNTAAAATANNGGAATGGGCTTNTNTTTGCTTGGAATACNAAAACNTNAA
ANAAATGGTGTTCATTNAGGAGAAAATTCTTACCCCCTGGAAGGATAAAAANCCCCAAAT
GGGGGNNACTGNAAAATAACNCCTAATGCCTTTAANAAATTNGGCCNCCCTTTNCCNCNA
GNGAACCCCNNTTAANCCNCGGGGGGCTTAAANNCCCATNANCNCCACCTGNAATTTTTA
ANGGAAAAAAAATTANTNCCNTTTTAAAAAAAAANNTTAAAACCCNTTTTTAAAA
Sequence 6205

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGANAGNATTCTAATCCAANCAAGGNGNC TCAAAACCTACTATTNTGACTGCACANCNTNANAAGGCTGNNGNTAGGATAAACAAAGTC AAACANCTTTATTTTNTCTAGGACCCCTGGGAACTTTT

Sequence 6206

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGGTTTATCAATGGGACGTTCCAGCAATCC ACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATGTGCCAA GCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGA AGTGCTCCTGTCCTCTCANCTGTGGCCACCGTCGGCATCACGATTGGAGTGCTGGCAGG GTNGGCTCTGATATANCAGCCCTGGTGTATTTTCGATATTTCAGGAAGACTGGCAGATTG GACCAGACCCTGAATTCTTCTAGCTCCTCCAATCCCATTTTTATCCCATGGGAACCACTA

TABLE 1A 571/599

AAAACAAGGTTCTGCTCTGCTTCCTGAAAGCCCTATATTGCCTGGGANATGGACCAACCT CAAATGGNAAAATTTTAAAAGGGAAAAACCCCTTCATGGCCTTGAGGGTGNTGTGCCCAC TNCAGAAGACNTTCACCCTAACTTANAAGACAAGGCCNAACTTGCAAAAACCNATTGGTT GAGAAAAATTGAACGANTTTCACAACTATTGGNACAGCTTTTTNCCCAAAGNATNTTNCA AACAAAGAANTCCTTTANTNAATGGANANTGGGGTTTTTTACCCCCCT Sequence 6208

Sequence 6209

Sequence 6210

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCAGTTGCCAAGCAACGAGTGTAAACA GCACAAGATCATGGCCACTAACTACAGTGCCAACCAGTATGAAAAGACTTTCTCATCCAA GTATCTGCAGAACTGGTCTCCCACTAAGCCAACAAAAGAGAGCATCTCTTCTCATGAAGG CTACACTCAAATTATTGCCAACGATCGTGGTCATCTACTGCCTTCTGTGCCCCGTTCCAA GGCAAATCCTTGGGGTTCCTTCATGGGCACCTGGCAAATGCCTCTGAAGATACCCCCTGC TCGGGTGACCCTGACCTCCCGTACCTGCCCGGGCGCCGCTCGAAAGGG Sequence 6211

Sequence 6212

CCCTTAGCGTGGTCNCGGCCGANGTACACAATGGTTTATTAAAGGAATGTTTGGCCCACA TCAACCTANCNTGGNTTCTACTGGGTAAACNTTCCCATGGCCNAAGGAAAAACAAGCCNG ANTTGANTGACTGGGGGTGGGGTGCAGGCAATGAANANAGGNCATAAGGGTGTATAAANT AAGGGGGC

Sequence 6213

TABLE 1A 572/599

TGACCTTTATTAAAATTNACATTTNCATTACATTNAANTCAGATTAAATTGCTTGGGAACTNAGATTTTTCCCGGNTTTGTTCTGAGCCCTTTAA

Sequence 6214

CCCTTCGAGCGGCCGCCCGGGCAGGTACGGAAAACCACTTTCATATCCGCTGGAAATTC
ATGTAAAAGTTAAAGATATTAATGATAATCCACCTACATGTCCGTCACCAGTAACCGTAT
TTGAGGTCCAGGAGAATGAACGACTGGGTAACAGTATCGGGACCCTTACTGCACATGACA
GGGATGAAGAAAATACTGCCAACAGTTTTCTAAACTACAGGATTGTGGAGCAAACTCCCA
AACTTCCCATGGATGGACTCTTCCTAATCCAAACCTATGCTGGAATGTTACAGTTAGCTA
AACAGTCCTTGAAGAAGCAAGATACTCCTCAGTACAGAAGGTAGAAGTGAGTAACTTTTT
TCTTGCTCCAGAGCAATCCCTGAGTAACTAAGCCTGCATTATTAACTTACATGACCAAAT
TATTCATAAAATTAATTTTTGATAAATACAGAGTGAGAACAAAGAAAATTATCTCTATTCAG
TTATAAAAACATACTTTTTAGGAAACTAACANTAAATGTGGGCCATGTGGNGGGACCNCAA
CATTCNTTNAAAAA

Sequence 6215

TTTCGAGCGGCCCCGGGCAGGTACTAAGGATCAACCAGGTTTGGGAAGCCCAAGGACA GATATATGCNNNCNNAAATCATTTCTAATNCTGCCATTTCATGCTTTCTTGGGCTTTCTG AGGAGATTCCTTGCCACTTCTGTGGGGAAAACA

Sequence 6216

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAAGGATGTGGGTAGAACTACAATTGTGCA
TTCAGACATGATAATTCCTACTAACTGGGGGTAGAGGGCCCACAGGAGTGTAGACTAGA
AGTAGAAAGAATGAGGAAAATAAGTCTTTTGTAGCTGTATGGCGATTGAAGAGGAGATAA
AACAAACTCTCCAGCTTTTCAGGTTGGGTGACTTGCAGCGCCATCGTCTGACAAAGCCGC
CAAAATCTTTCAATGTCCCTAGGAATAAAGTTGCCCTGAGTAGGGCCACTCAGGATGACG
CCAGATGATATCCCTTATTATAGTTTTAGGGGGAANCTCTTCCTACCTTCGCCAGTCCTGC
AGTGAAAAAATGTACCTCGGCCGCGACCACGCTAAGGGCGAATT
Sequence 6218

NCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACCACTGTATGANGCTCATGAGCTCTGG CATGCCATGAAGGGAGTANGGCACTGATGAGAATTGCCTCATTGAAATACTAGCNTTCAA GAACAAATGGAGAAATTTTCCATGANGCCGAAGAAGCCTACTTGCTTGCAATACAAGCAA ATAAACTCTNCCAAANAGGACCAATTTTAATTTCATNGGGACCCTTTNGGGAACNACTTT TCAANNAGTATTAACNTTCTTTCAATGGAAAACCTTTTGGGTTCCCCAN Sequence 6219

TABLE 1A 573/599

CCTTTTTTAGTGNGGGGAATACTCTNTNTCTTGCCCCNTCNTGCNTTTTAAAGAAATTN GGGCCCCACCTNCTCNCCCTAAGGTGAAGCNCNTTTGAAGCCCAGTGGGNGCCTAAATGC CTTNATTANTTTTAAACTTGAANANGCCCNCNCCCCNACCNCCCNAATCCCANTTTNNAA AAACCCTTAAAAACCCNATTTTTAAAA

Sequence 6220

Sequence 6221

Sequence 6222

Sequence 6223

Sequence 6226

TABLE 1A 574/599

Sequence 6227

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCTGGATGATGGTGAATACAACCCCACTGAT GATAGGCCTTCCAGGGCTGACCAGTTTGAGTATGTAATGTATGGAAAAGTGTACAGCATG TGGAGCTGGAGAGGAGTGGGCAGCAGTGTAGATAAACAGGCCTGGCCGTGTGTGGATG GGTTGTCAGGGCTGAGTGGAGTTGCAAAGGGATTTATTATACCATGATCTCTGCTTGTGC ATATGTTTGGAGATTTTCATAATCAAATGTGAAAATTTTTTTGATTTTCATAATCAAAAAT CAATACAAAATATGAATGTATAACGTAATTCCTCCATCATGACGGTGG Sequence 6228

Sequence 6229

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCT
TTACCTTGTTCTCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG
AGGACTCTTCATTTTATCCCCGGTTTTCTGAGGGCCTTTAATCATGACTCAATGTTGGGT
TTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTTAGTCCACTAAT
ATGGTAAAGTTCATTTATTGATTTTTTGAATGTTAAATCAACTTTATCTTCCTGCAATAAA
GTACCTGCCCGGGCGGCCGCTCGAAGGG

Sequence 6230

TABLE 1A 575/599

Sequence 6233

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAACGAGGACCGGTCTGGCTTAGCATCCACT GAATCTTCATTTGCTGAATCCTCAACCCCCTGCTCTTCAATACAGCCCTGATCATCTGCC ATCGTTCCCACGGCGGTAGGGCGGCTGGGACTGGCACAGTCTCTCCCGTCGCTCCGCAG CAAGGGTCTGGGGCCCCTTTAGCGAAAGCGAAACTAAAAGTCTCCCCCGCGTACCTTTTA CGCTGCCAGAATGAATGTAGGGCTGCTATGCCAGCATATTACCCTTTTTACTGNCC TCACCGCAGTTCAGTGTTTGCCAAAGTGTGAACCAGAACTGCTTGTATCACANAATCTNT TGGGACAGGGCCTGGCGTTCTTAATTTTAAAA

Sequence 6234

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTATTAACTTTGATGGAGAAAGATTCCCTG
TATCACTTTCATATTTTAAGGGGAAGGTTTCAGTTTCTTCTTAGTAGTTTTTCTAAGCCA
GCACTGAATTCGAGGAACTCTGATTTGGGTTGAACAATTGTTTCCCTCACAATTTCTTCC
ACTTCCTGAGGGAGGCCTTTGCCATATTGAGCAACAATGGAAGCAAATGAGCTAAGCGTC
TGGTCTGATGGAGACATTTGGGCAGCTAAATAAGATCCAACTTCATGAGTTTTATCAGGA
ACTACATTGGAGGAATAAAAAATCCTTCCTGTCTGGAACTATGGTGTCCATCGTAGCCCAT
GGTGACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGG
CCG

Sequence 6235

Sequence 6237

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTCTACTGATGCATTTTTATTTTTTCTAGG CGGGAGTCAGGTAAATCATTTAAAAGGTAAATCAGATTGTGCCATTACCTCACCTGCTCA AAAGTCTCCAGTGGCCTATCACACTTTGACTAATATCCAAAATTGCTGGGGCAGAAAAGTT CTTGATGATCTTGGCTTTTCCTTCCCATTTCCTCCTCATAAATCACTCTCCCATGCACT ATTTCTATGTCTTGGCATTTTTCTTTCATGATATTTATGTCATAGAGCCTTTTCTCATAG GTCACTCCTTTACTTTCTTTT

Sequence 6238

TABLE 1A 576/599

CCCATTCTTTTTGATCCCACAGGAAGCTTGTGGGTTGGGTCCGGCCCGTAACCCCCCGGGATGTNGGGTTTAAGGTGGATTACTGGCTAACTTGAGC

Sequence 6239

Sequence 6240

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCAGCAGTTGTAGGAGAAGAACTGGCTTCAG CAGAAGTGGTGACAGGTGTGCTGGTGTCAACAGGAGTTGTTGAAAGGGTGCTAGCCTCAN AATTGGCCAACAGCGTGGTGCTGACAAGTATATTTGTTAATGGAGTGCTTCTTTCACCAG GAGTTGAGGTTGGCATGCTGCTACCTTCAGCAGTTGTAGGAGATGAACTGGTTCCAGTGG AAGTGGTCACAAGTGTCCTGGTGTTCAACAGGAGTTGTTNAAAGGGGTGCTAGCCTCANA ACTGGCCACTGGCATGGTGCTGACAAGTATACTTGTTAATGAAAGTACC Sequence 6241

Sequence 6242

Sequence 6243

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATCCCTGACTCGGGGTCGCCTTTGG
AGCAGAGAGAGGCAATGGCCACCATGGAGAACAAGGTGATCTGCGCCCTGGTCCTGGTG
TCCATGCTGGCCCTCGGCCCGAGGCCCAGACAGAGACGTGTACAGTGCATATT
GGCGGCGCACGCCTCATTACGATTCGCCTGTTTGCTTCTCTGTTCAATCGTTTCTTTGG
AAGGCAGTGGATTTTTCTCTTGCGTCTCTTCTTCAGTTTCGACTTATCGAATTTCT
CGATCTCAGCCATATCGGGTTTGTCAGACATGGTTGCGGGAGGAAAAGCGAAGCG
Sequence 6245

TABLE 1A 577/599

Sequence 6246

Sequence 6247

Sequence 6250

Sequence 6251

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAATTGCAGCTGTCCACTTGTCGTGT GGCTCTGTGTCNACACTGNGCGCCACCATGGCCGNGACTGCCTGTCAGGGCTTGGGGTTC NTGGTTTNACTGATTGGGATTGNGGGCATCATTGCTGNCACCTGCATGGACCAGTGGAGC ACCCAANACTTGTACCTGNCCGGGCGGCCGNTCGAAAGGGCN

Sequence 6252

CCCTTAGCGTGGTCGCGGCCGAGGTACANCNGGGACTGGAGACACTGAAGAAGGCAGGGG CCCTTAGAGTCTTGGTATGCCAAACANATTTGCAGATCAAGGAGAACCCATGTAGTTTCA AAGAAGCGCTAGTAAGGTCTCTGANNATCCTTTGCACTAG

Sequence 6253

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGACTCCAGACCTNAGNTNTGTGACTATACT GTGCCTTCCCGTTTCTNAGAAACCAAAGCCATANTCGNAACAAGCTAGTTTGCATCTTNT GCCCTGAAGCCAAGGTCTCTCTCTGGGTACTTGGGGTGGNTGGGAACAGAGCCAGGCNTC

TABLE 1A 578/**5**99

CACCGTGCACGCTGAAGGGTGCCCANAGGTGTTCATCTGGGCTATAAGTTGTCTTTTAC CCATTCAATCAGGTTGTTTGGGATTTAGGGT

Sequence 6254

GGCGAATCGGGCCNTTTAGAGGCATGCTCGAGCGNCTNGANGCATGCATGGANGNCTGCA
GAATTCGGCCTTAGCGTGGTCGCGGCCCGAGGTACAGATGGGGTTTCACCCGTGTTAGCC
AGGATGGTCTCAAATCTCCTGACTTNATGATCCACCTGCTCGGCCTCCAAAGNGCTGGGA
TTACAGGCNGTGAACAACCGAGCCCAGCCAANGTTTTAATTTTCATTCCAAACCCAATCT
TGGTGCCTNTAATTGNTNAGGGTTTNCAATAGCCCCAANGGNGCACATNAGNCCGGTNTT
NCTTGGGGGGGNTTCCCTTANNCATGCNAAGGNGNNGGGNTTTTANTTCTTNTNGGGTTCT
GGCCATTTATCTATCANGAAACTAANCCTTTGATTTAACATNTCCCNATTATGCNTGNTT
TNTCCTCTTCCCATCCCTTTTATTGGTGAAAGGGGTTATGCCTTTT
Sequence 6255

Sequence 6256

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGAAAGCGGAGCCGGGAGTTTTTGCT
ACAGTTTCGCCACCGTGAGTCGCAGCTATAATGATGAGCTGAGTTCTTGGAGAAGATCA
ATAAAAACTGCTGGAGGATTAAGAAGGGCTTCGTGCCCAACATGCAGGTTGAAGGTGTTT
TCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTAAGGAATGCCTGTCATG
GAGCGGGCCGTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCT
TANACAAATTGGCAGATATGGAAATTGCGATCCGTGTTGCCTCACCCAAACTGGTTATGG
Sequence 6257

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCCGGGGAGCTCACACCTGTAATCCCAGCAC
TTTGGAAGGCCGAGGTGGGCGGATCACCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCT
ACTAACAATATAAAAATTAGCTGGGAGTCACGGTGGGCGCCTGTAGTCCCAGCTACTCGG
GAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTAGTGAGCTGAGATC
GCACCACTGCACTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGA
GCAGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTTCTGCCCAACCATGGCCCGTT
TGTGGAGCTCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 6258

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGACATTGATATTCACCATGGTGACGGCGTGGAAGAGGCCTTCTACACCACGGACCGGGTCATGACTGTCCTTTCATAAGTATGGAGAG

TABLE 1A 579/599

TNCCTGCCCGGGCGGCCGCTCGAAAGGGCN

Sequence 6260

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACACCAGAATACAAGACAGTATTGGACAATG CCACCGAAGTAGTGAAAGAGAAAATCACAAAAGTGACCACACAGCAAATAATGATTAATG ATATTTGCTCAGACATGATGTGTTTCAACACCACTGGCACCCAAGTGCAAAACATTACGG TGACCCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 6261

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGAAGTCAATAATTGAAGTTTGGGAACCTCT GCCTAGATTTCAGAGGATGCATGGAAATGCCTGGATATCCAGGCAGAAATCTGCTACAGA TGCAGTGCCCTCATTGTGAACCTCTGCTAGGGCAGTGTGGAAGGGAAATGTGGGGTTGGA GCCCCCACACAGAGTCCCCACTGTGGTACTGTGCAGGTTAGAGGCTGCGTGGCAGG AGAGGTTCANATTTTCCCCTGGACCGGTTATTGGCCTTTGAGGGGGAAATGGTGGGGGCC ATC

Sequence 6262

Sequence 6263

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAATGTATAAATGTCCATTGCCATCGA GGTTCTGCTATTTTNGAGAAGCTGAAGCAACTCCAAGGACACANTTCACANAAATTTGGT TCTTCAGCCCCAAAATACTTGATTGAATTGGGGACAATTACAAGGACTCTNTTGGCNNAA AAACCCTTGAA

Sequence 6264

Sequence 6265

Sequence 6266

Sequence 6267

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTATTGATTCATTTATATTTAAATATTTAATA TTTTTCTTGCTATAGTGAATGGCATNTTGTTAAAACTACCTGATCTATATGGTTCTTGCT TATATATAGGAAAGCTATTGAGTTTTAAATGTTTACTTGATCTGGACAGTGNCATGAATA

TABLE 1A 580/599

TATGATTAGGTCTAATAGTTATTCATAAGTTGNCAATAATTTTGNTGGTTAGAAATGATG TCNTATATTAATAANGNGGGGTTTTATCCTTTTTTCTACAATCTTTATACCTCATTTATT TTTTCTTGTCTCATTTCANTTGNGCTGGAACCTTCATAGTGATATTT

Sequence 6268

Sequence 6271

Sequence 6270

Sequence 6272

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCTCTGAAGCCGTGGATACAGAAATCT CTGCAGGCAAGTTGCTTCCCAAGNAGCATATTGCAGGACAAGCCTGTAACCGAATAGTTA AATTCACGGCATCTGGGNTTCCTAATCCCTTTTTCCCGAAAAAAT

Sequence 6273

Sequence 6274

CCCTTCNAGCGGCCCGGGCAGGTACTTATTCCTTTTGAAAAACCGGACTTCACCT CTGTCGGCAAATTNNTAATGNCTNTTCANNCCCATTTGGAGATGGGGACANAAAACAGA Sequence 6275

TABLE 1A 581/599

ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC CCAGACTCTGTCCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA AACAGAGGGAACAAAGAGGAAGATGTCTGGGAACCGAGGAGTAATAGAGACCTGAGTTTA CATCACTACTCTGCCACTCCCTAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTC CAGCACACTGGGCGCCGTTTACTAGTGGGAAT

Sequence 6276

Sequence 6277

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGACTTTATACATTTTACATTTGTAATAAA AAAATCATGAAAAGTATGCTTTGAACCTGTTGGTAAATTCTAAAAAGGAACTAATTTGAA AGATTTATAAATCAAATTTGTTAAGTGGCCAAACTATTTTTTATTTTTGAAAATAACAAAA TTCCAACTCGAGCAAAGCTGGTTGGAAAGAAGAAGGAATAACTGCCTTTTCTAAGCTTTATCA GCTAGGAAGCAGATNGGAATTAATAATTCCAAGAAGAAGAAGATTTTATGAAAAGAAAT TGTAGTCGTCATGCTGAGAGTCTGAGCANGCTCATCTTCNGAGGTTTAAACGGGTCCAT CTCCCCCACAGCAGCACACACACTGG

Sequence 6278

CGGGCCGCCAGNGGTNATGGNTNTNTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAG
GTACACCAAATGAGATACTATTTGGAAAGGCAATAAAGGGAGTGTAAAAGCCTAGGTAGC
TTAAATACAGGCTCTGGAATTTCCTTCGCAGGAAGGTGAAGCACCAATGATGGCAAAAAT.
TAAATAAATACATCATCTTAAAAAGGCAGAGGGTAGGCTGCGTGCAGTGGTTTACGCCTA
TAATCCCAGCACTTTGGGAAGCCAAGGCGGGCACATTGCTTGAGCTCAGGAGTTTGAGAC
CAGCCTGGACAACCCCATCTCTACAAAAAAAATAAAAATCGGCCAGGTGTGATGGGGGCAA
ACCTGTGGTCTCAGCTACTTGGGAGGGTGGGT

Sequence 6279

CCCTTAGCGTGGTCGCGGCCGAGGTACCGACCATAGAGCAAGAATCAAGATTCTGCTAAC
TCCTGCACAGCCCCGTCCTCTTCCTTTCTGCTAGCCTGGCTAAATCTGCTCATTATTTCA
GAGGGGAAACCTAGCAAACTAAGAGTGATAAGGGCCCTACTACACTGGCTTTTTTTAGGCT
TAGAGACAGAAACTTTAGCATTGGCCCAGTAGTGGCTTCTAGCTCTAAATGTTTGCCCCG
CCATCCCTTTCCACAGTATCCTTAGCGTGGTCCGCGGCCGAGGTACCGCGGGGAGAAACT
TGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGAGTTGCCATGGAGAAAATTCCAGT
GTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCNA
ACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCCNAAGACCCTCTCCA
GAGGTTGGGGTGACCAACTTCATCTGGATCACATATGAAGAAGCTCTATATAAATCC
CAAGACAAGCAACAAAACCCTTGGATGATTATTTCATCACTTGGATGAGTGCCCACACAA
GTCAAGCTTTAAAGAAAGTGTTTGGCTGAAAATAAAGAAAT

Sequence 6280

CCCTTTCNAGCGGCCGCCCGGGCNGGTACTCTTGGTTTGTCAATGGGACTTTCCAGCAAT CCACCCAAGAGCTCTTTATCCCCAACATCACTGTGAATAATGNNGGANNCTATACCGTGC CAAGC

Sequence 6281

TAGAAAGTTTAAATACAGAAATAATCTTGAAAGAAGGCAGANAAAAATGACACATTAACG TATAGAAAAAAATGACTACTGACATCATAAAAAATAATAAATGCCAGAACACAGTAGAA ATACACATTGCAAGTGCTAAAAAAAAGCTTTCAAATGAGATTATATGCTCCAAATATATCA TTTAAGAATGAAAGCAAAATTACACTTTCAGTTATGATGGAGTAACAAGGACTACATATA

TABLE 1A 582/599

Sequence 6282

Sequence 6283

CCGAANTTTGGGGGCCCCTCTTAAANAAAAGGCCCATTTGGGNCCCTTTCCCGGAANACC GGGCCCCGCCCAAGTTGGTTGAATGGGGANTTATTCCTTGGCAAAGAAAAAANTTTT TTCCNNGGGCCCCCTTTTTTCCGAAAGCCGGGCCCGCCCCCGGGGGCCAGGGTTNCCCC CNGGGGGNTTCNAAAAATTAACCGGGGAAGGGNCTTTTGGGGGNTATTTCTNNGGGGGGG GGGG

Sequence 6284

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATAGAAAAATGATGTATTATGAAAACAGTTA
TATGAAGGCTGGAGTAACTATATTAACATCAGATAAAATATGCTTCAAGACAAAAAGTAG
TNACAGAGATAAAAAAGGGACATTTCATTATGAAAAAAAGTTTAATTCATTAGCAAGATAT
CACAATCATAAATATGTATGTGGTTAGCACAAAGTTAAAAATGCATGAAGCAAAAACTAA
TNGAAGTNAAAGAAGGAATAGACAATTTCACAACAAACATTAAAGATTATAACACTCTTC
TCCTGCCAATTAATAGAATAACTAGACAAAACATAATTATCCNGATTATCTGAAGATTAT
CAACCATCTTGNCTTTAATTGATATTTATAGCACAATTTGCAGAATACAA
Sequence 6285

Sequence 6287

CCCTTAGCGTGGTCGCNGCCCGAGGTACCTTAATAGCTACCCAACAAGTCATTAACATAC AAGAAACATGCATTTTNNAAGCAGGAAGCATCACCCATCCCTTCTNGCATATTAGCAACT TGTNACTNCCTGAGCAACAGTGCTCACATCACTGAGGTCTGTGAACAGTCCTTTTTCGAT TCATCCTGAGTGAAAGATGGGAATGACTTAAGTACCTGGCCCNGGGCCGGNCGGCTTCGA AAAG

Sequence 6288

TABLE 1A 583/599

Sequence 6289

Sequence 6291

Sequence 6290

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGAATATATGCCAGCATGAAGTGCCCAGACCA GAAGTGTCTATATACCTGTCAGATCAAGGATGGTGGTGTGCAGCCTCAGTTTGAAATTGT TCCTGAAGATGACCCCCAGAATGCCATTGTCAGCTCTTCTGCAGATGCTTGTCATGCAGA ACTGCTCAGGACTATAAGCACTACTATGGGGAAACTAATGCCTAACCTGCTTCCAGCTGG AGCTGACTTTTTTGGATTTTCTCATCCAGCCATCCACAACCTGATCCAGAGCTGTCCAGG AGCTCGAAAATGCATCAATTACCAGTGGGTGAAATTTGATGTGTGCAAACCTGGAGATGG GCAGCTACCTGAGGGGCTGCCGG

Sequence 6292

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCAACCAGCCTACAAGCTGGCACTTGCTAA CAAATCAGAAATATGACAATTAATGATTAAAGACTGTGATTGCCACCTAAGAAAAAANNN NNNGCTATNNNAAANAAAGTACTTGGGCTGGAAGGCCAAGACAGCACCANAAACTAGCAA CATTTA

Sequence 6294

Sequence 6295

Sequence 6296

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGACTTTGTCACCAATNCAAATCACAGCTG

TABLE 1A 584/599

Sequence 6297

Sequence 6298

Sequence 6299

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCCAATCTGGGTGATAGAGCAAGACCTTGTC
TTGAAAACAAGATAAAACAAGATAAAACCTTTCCCTCATCAACCATTTGCCCAGGAAAGA
AGACAATTACTTGGGGTTTTGTTTCCTTTGTTTACCANTTTTCAGAATGAGTTGGTACCA
TCAGCCCTGGC

Sequence 6301

TABLE 1A 585/599

Sequence 6302

Sequence 6306

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGNGGCCAAAGTGGCGAGCCTGAGAGGAA
TGGAGTTCAGGGGTGCGCCAGCACTCAGGTTGAATCAGAAAATAACCANGAAGACCAGAA
ANCCGGTGCGCTTACCAGAAAGCCGNCTGACACCATGGGAGGTGTGGGTTTATTGGCAAA
GAAAAAGAANACCTNACCGGTTGCACTTGAAACTCTAGAGGAATTAAATCACCACTTNGA
AAAAGAAAAGAANTGGAAGAACCTTGAAAAAAGAAAGATAATTGCTGAAGAAAACNCAAG
GAATGGGTTTCAAAAANAAGAATTGGCCAAAANGGAAAGGAANGAGGAACCAAAAAATTA
TTAAAGAAATTGGGNGGAAAAAAGCCNCCAAANGGACCTGGAGNAAAGAATTCTTTCCAA
GAAAAAACCAAAAGAAAAATTTTCAAGAATGGGTTAAAGAAAAAAA
Sequence 6308

TABLE 1A 586/599

ATACTGAAGAGCATTTAAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGG Sequence 6309

GATATCTGCAGAATTCGCCCTTANCGTGGTCGCGGCCGAGGTACAAGANCATCCTTTAGT
CTAGGGCTAGATTTCCACTCTACCCAATGTCCCATGAATTATGAGGCTTTCCACTCTGGC
TGGTGGGAACAGGCACTATTCCTAGACCACTATTCCAAGCTTCCTAAATCTCGGCCAGAA
CAAATTCATTAATTTATTTAGAAAGATTTATTAAGCACCTTCATGTTAATAGCACTAAGG
ACTGTTCCCTCTCATCCTTTTAAAGTGGTTCTTTTCCCAGCATTATGTATCTTCTTCAT
Sequence 6310

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTATACAGGAGGCTGAAACAGAATGAAAGG GTGAAAATTAGGTTTAATTTACTTAGGAAACAAGAAATAGAAAGTCATAGCTATAACACT CCACTTTCAGGTGCCCATGAAGTAGCCTTCAATGGAGATTCCCCATAGTTGTTTCACAGC ACAGTGTTAAAATTTTATTACAAGCCCTGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGC GAATTNCAGCACACTGGCGGCCCGTTACTAGTGGATCCCGAGCTCGG Sequence 6311

Sequence 6312

CCCTTCGAGCGGCCGCCCGGGCAGGTACATACTATCAGTGTGACTTATTACTGTTAGTG
TTAATCTTGATAACCTAGCCGAGATAGTGTTTATCAGATTTCTCCACTACAAAGTTATTT
TCCCCCTTTCCATATGTAATTTTTGGAAGGAAGTCACTATTCANCTCACACTANAGAAGT
AGGAAGTTCTGCTCCATATCCTTGAGGGCAGAGTTCATAAATTATTTGGAATTCTTCTTC
ATGGGAGATTCATCTATTCTACCCCATTTATTAATGTATTCAATTTTCTGGCACTACAAG
AATATATATATATATTTTTTGTAATCGACTTTAAAATAATTATGAGAAAATGATAGAACATTT
TAATATAAGAACAAGATATGGTAAATTGATGAATATTATTAGACATTATCAGTAACAAGA
GCTTTGTATCTTAAGTTGTTTTGAGTT

Sequence 6313

Sequence 6314

CCCTTAGCGTGGTCCGGGCCGAGGTACAAGNGGTGGCCACANAAGTAGGGGGGNNAGCC NAAGCTCTCTTACTTTATGCTAACCNGCTAAATCTGATCATTATTTNAGANGGGNAACAG CNTGAAACTAAAAATTGATATANGGCCCTACTACACTGG

Sequence 6315

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACATACTAAGTAATATAATTGTTAACTC
TTACTAGCATTCTGTCCCTTTTATTTCCTAAATATCTCTCATGCCCATCTCCTAAATATC
TCTTTCCTAAATATCTCTCATGCTTTTGGCTTAAGACCTCTTTTCCTCCTTATCCATTGA
CTGGACTGCGGCAAATGCCTGCTAATCGTTATTTTTGTGTTCATTTAGCAAGCCAA
TTTATTACGCGCTTAGGGTGCTGCCAGGGCTACAAAAGCTGTTGAGACTGTACCTGCCCG
GGCGGCCGCTCGAAAGGGCN

Sequence 6316

TABLE 1A 587/599

NAANTNCAAAAACNTNTTTNAGGGGTCCNGGGGAGGGGGNAACCCAGCTTTGGGANTAAA NACCNNGCTGGGGACNGNNCCCCNTNAGGATGCNNGCNAANCCCTGCAAAAATNNTTAAA ATTCNNNCTNCTTTTTTNGNGGGACCTCNATGGGTTTAGGANAAAAAACCCC Sequence 6317

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGGTCTGAAAATTGAACAAGATGGACG GGTCCAGGAAAGAGGAGGAAGACAGCACATTCACCAACATTTCTCTTGCAGATGACA TAGGAAGACCAACCCCTTCTCTCCTCCTCTCTCCTCAGCTTGTTCAATGTGAAAATGAAG AAGATGAAGACTTTCATGATGACCCACTTCCACGTNATACCATTCCTCAAGAATTTNGNA TNCAAGGCCCAAAAGTTTGNTNCCCAAGATGATGAATG Sequence 6318

Sequence 6319

CCCTTCNNTCGGCCGCCCGNTNAGGTACATTGTATCTTTGTTCTCACTGGTTTCAAAGA ACATCTTTATTTCTGCCTTCATTTCGTTATTTAACCGGTAGTCATTCGGGAGCAGGTTGT TCAGTTTCCTTGTAGTTGTGCGGTTTTGAGTGAGTTTCTTAATCCTGAGTTCTAATTTGC CCGCGTACTCCTCCTCCTCCACATCATCCCGGCACACCCCCACGCGCCACCTTTTAT TGTGTCCTCCGTCCACCTCCAGTAATGTTTCCTGCTTGGAAACTCTGAGAAGCCACCACA CTCTTCCTTGTAAATCTCTTCTCAGAAGTGAGGCACCTNCTG Sequence 6322

Sequence 6323

TABLE 1A 588/599

CCCTTANCGTGGCNGGGGCCGANGTACTAAATAAANATTATTGGAATGAACAGCCGAAGC GACTGACTTCTANATGGAGCACTATTGCTCATTTCACTTCTGTTCCTNGCACCTAAACAA ACCTTTACATCCTCACTGGTCTGNGAGGCCAGANAACAGGTGTGGCCTTGGTGTGATAAG AAATGCTANTTTTATACAAAACTGAANCCAATNCNTGGGCCTNAAACTCTTGACCCCCCA AATGCNCCTTCAAAAATGGNATTCAATTGGAGCCCANNGNGNAGGGCTTNGAANGNAAAG GGAGNGNAAGCCAATTCATGGCCCCCTTT

Sequence 6324

Sequence 6325

Sequence 6326

CCCTTCGAGCGGCCGGGCAGGGTACCCCGGGCTAGCACTCTTGACCTAGCAGTCAA
CATGAAAGGCTCTCATTGTCTGGGGCTTGCCTCCTTTCTGGTACCGGGCCAAGGCAAGGT
CTTTGAAAGGGTGTGAGTTGGCCAAGAACTNTTAAAAAAAATGGGAATGGATTGCTTCAGG
GGAATCAACCTAACCAACTTGATGTGTTTGGCCCAATGGGAAGAATGGTTACAACACACN
AAGCTACAAACTACAATGCTTGANACAGAAACACTTGANTATTGGGATATTTCAAGATCA
ATANCCCGCTACTGGTGTAATGATGGCAAAACCCCAAGGAACAAGTTAAATGCCTGTCAT
TTAATNCTGCAGTGCTTTTGCTTGCAAGATAACCATCGCTGATGCTTGTAACCTTGGTGC
AAAAGAAGGGTTGTNCCGTGATNCCACAANGGCATTTAAAACCATTGGGTTGGCATTGGA
AAAAATCGTTTGTCAAAAACAGAAAATGTNCCGTCAGTATTGTTCAAAGGTTGGTGGAGT
GTAACTTCCAAAAATTTTTCCTTCTTCAAGCTCAATTTTTGGCCTCTCTTCACATTTAAAG
GGAGTAGGGAATTTAAGTGGAAAGGTCACACCTANCCATTTATTTTTCCCCTTCA
Sequence 6327

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTGCAGGATCTTGCTGTCGGTGGTCTGCG GGAAGCCAAAGTCCATGAGCTCCTCCAGCAACTCGTAGACGATGACAAAGTTGTCCCGGA TGCTCTCCTCCAGCTCCTTGAAGTATTNGCAGAATACCTCTATTGTCTTATACAGGA AGGAGTACTTCCCACTTTTCATAACGAGTTGGAGCCTAGAGTTGATCGACTCCAGCGACT TTTTCGTCTTCTTTGCGGCCACCATCTTCCTGCCTTAGGAGCGGGACGGCCCCAA Sequence 6328

TABLE 1A 589/599

Sequence 6329

AGAATTNGCCCTTAGCGTTTTCGCGGCCGAGGTACAAATGACACAATNAGAGAGAAAAGG GTGACAAAAAGCAAAGAGATGAATACTGATTATAACTTATTCCCACAACA

Sequence 6330

Sequence 6331

CCCTTTCGAGCGCCCCCGGGCAGGTATAGATTAAATAGCTTAAAGGAAGAAAAATCA TCATAGTAAAAGAATTTGAGAAGATACAAAGCCNGGGAAGAAATGGAGAAAGAAGATGAA AATTTTGAGAGAAAGCCCTGAAGAATTNCGTAAAGAAATATTGCAGAAGAAATTAGAAAT TAAAATT

Sequence 6332

CCCTTCGAGCGCCCCGGGCAGGTACNCGNGGAAAGTAAATGACNATTTNTAATTTT
ATGTGATANTTTTAAAACTNTGTGTTANCTAGGGTNNTAGGAANCCNGATGTCCANAAC
CAATCATGTGGGCTGTTCAGACTGGGATCCACTCAGGGTCCCCGANCCGNTCCCANGAA
CTTNNGGCCTGGGCAGAAAACATANGAAAAGCCANNGTTCTAATAATACCCAAACTATAT
CAGTNTTTGAGTTCAATTTGTTGTACCTCGGCCGCGACCACTCTAAGGG
Sequence 6333

Sequence 6334

Sequence 6335

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGGNGCTAGCACTCTGACCTAGCNGCCANCAT GAAGGNTNTAATNNNNCTGGGGCTNGTCNTCCTTNCTGTANNNCCACANGCAAGTGTCTT TGAAAGGTGTNNGTNTGNCCANAACTNTGAAAAGATTGTNTAATGGATGGCTACAGGCNG AATCATCCTAGCAAACTGGATGTTTTGNCCAAATGGGANAGTGGNTCAACACACGATCT ACANAACTACAATGCTTGGAGACAGAAGCACTGATTATGGGATATTTCANATCATATAGC NCGCTACTGNTGTAATGATGGCAAAACCCNAANGAGCAGTTAATGCCTGTCATTTATCCT GCAGTGCTTTTCTTGCAAGATAACCATCGCTGNTGCTGTAACTTGTGCAAAAGAGGGTTT GTCCCGTGATCCANAATGGCATTANAAGCATGGGTGGCAATGGANTAAATCNGTTTGTNA AAAACANAGTNTGTTCCTTCANTATGTTCAAAGGGTTGANGGAAGTGNNAACTCCANAAA ATTATCCTTCTTNAAGCTCAATTTTGANTTTCTTCACCATTAAAGGGAGTTNNGAAATTN ANTTGAAAAGGTTCACAACTACCATTATTTN

Sequence 6336

TABLE 1A 590/599

CCCTTAGCGTGGNGCNGNGGNCGANGTACTACAGGCTGACCTTCTCTGTTTGCCAATTCT
GGAACCAAAATATGCAGTTGAAAAAATANTANAAGCTATTCTACANGAAAAAATGTNCCT
GCCCGGGCGGCCGCTCGAAAGGGCCGAATTCCANGCACACTGGCCGGCTCGTTTACTAGT
GGATCCNGAGCNTCGGTTACCAAGCTTGGCGTAATCAATGGTTCATAGGCTGGTTTCCCT
GNGNGGAAAATTTGTTATNTCGCTTCACANATTTCCACAACANANCATTACCGAAGNNCG
NGAAGGCATTNTTANGTNGTAAAAAGGCCCTGGGGGGTTGCNCTTAAATTGAAGTTGNAG
GCCTAACCTTCACCA

Sequence 6337

NCCCTTAGCGTGGTCNCGGCCGAGGTACCAACTGCAGAGCCAGGAAAACTTTTGAAGCCT TCATGAAGGCAATCGGTCTGCCGGAAGANCTCATCCANAANGGGTTAAGGATATTCAAAG GGGGTTGTNGGGAAAATTCNGGCCAANAATTGGTGAAGCCACTTTCNAATGTTTCACCCA TTCCNCCCGNTTGGNGTTTCCCAAAAAGATGNAATTCCCAAAAAAACCGA Sequence 6340

CCCTTAAGCGTGGTCGCGGCCGAGGTACTTTCCAGGGGAACCGCATGGAGATCCCTTAAG TTGAAACTGGACAAAACCAGAAACCAAGTTGGGATGGTCTAGCTGANATCTGGGATAGTT TCTTGAATTCAAAAGTGTTCACCANCCCATTTGGATTTTTTTAACTTGGGAAACCCCC Sequence 6341

CCCTTCGAGCGGCCCGGGCAGGTACGCGGGGTGGCCTAGCCTCCCAGCCTACATC
TTTCTCCCATGCTGGATGCTTCCTGCCCTCAAACACTGGACTCCAGGTTCTTGTTTTGGG
ACTTGGACTGGCTCTCCTTGCTCCTCAGCTTACAGATGCCTATTGTAGGACCTTGTGATA
GTAAAGGAGATGGGTGTATGAGTTCTGCAGAAGTCCACCAAATGTGGGCCAGGGTTATTT
CCCTGGTGATGCTCTGAAGCTTTTGCCAAAGGACAAATGGAA
Sequence 6342

Sequence 6343





GGAGCAGATTCAAGTAGAAGGAGAGGAGTCTGCATGCATTGGGCTGACGGTGATTTGT TCATTTCTTAGAGTAATCAGTAACATCTTGATTGATGCATTCTTAGTTTAGTACCTCGGC CGCGACCACGCTAAGGG

Sequence 6344

Sequence 6345

CCCTTAGCGTGGTCGCGGCCGAGGTGCTNGNGGATGATTCACGTGGCAAAGGACGCCCAT TNNCTNCATTNTTATTGTNTACAANTTGCTACTTTTGCTACTTNAAANCATTCATTNAAA AAATATGTATTAANAATCATCTNAATAAGCTATTAGTGCTAGATGCTAAAGATATAGCAG TGAACAACAGTCTCTGCTGACATNAACCTTGTAGTCTACTGAANGAGACAACTAATAAAT AAGGAAACCAAATGTAAA

Sequence 6346

Sequence 6347

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTTAAAGCTGAGAGTGGAGCAGGCA CTAGGGGAAAACCTGGCATGCANATCCCCACCCCCAGAGGGATATGAAGCTTGTGGTAGG TGCCCTGATGGTAACCAGAGCAACAGTAAGGCTCAAACCCAGTCCAGCTTCTAATGAAAT TAACTCGATTCTTGCACTAATAGCTTAGCAGGAGGGAAAAACCTTGTAGGTNTATTAGTA GGAATTACCCATG

Sequence 6348